Pioneer sound.vision.soul

Service Manual



ORDER NO. ARP3211

PLASMA DISPLAY

PDP-435PE PRO-435PU

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-435PE	WYVI	AC220 - 240V	
PDP-435PE	WYVIXK	AC220 - 240V	
PRO-435PU	KUC	AC120V	



For details, refer to "Important symbols for good services".

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SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible - (fusible de type rapide) et/ou - (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed:

- 1. When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- 2. When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistor-capacitor, etc.
- When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
- 4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
- 5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and servicetechnician.

- 6. Perform the following precautions against unwanted radiation and rise in internal temperature.
- Always return the internal wiring to the original styling.
- Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
- 7. Perform the following precautions for the PDP panel.
- When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
- Make sure that the panel vent does not break. (Check that the cover is attached.)
- Handle the FPC connected to the panel carefully.
 Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
- 8. Pay attention to the following.
- When the front case is removed, infrared ray is radiated and may disturb reception of the remote control unit.
- Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

PDP-435PE

Leakage Current Cold Check

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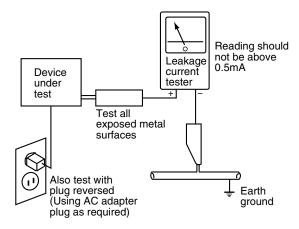
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of $0.3M\Omega$ and a maximum resistor reading of $5M\Omega$. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a \triangle on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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■ Charged Section

The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

- 1. AC Power Cord
- 2. AC Inlet with Filter
- 3. Power Switch (S1)
- 4. Fuse (In the POWER SUPPLY Unit)
- 5. STB Transformer and Converter Transformer (In the POWER SUPPLY Unit)
- 6. Other primary side of the POWER SUPPLY Unit

■High Voltage Generating Point

The places where voltage is 100V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

1. POWER SUPPLY Unit	(215V)
2. 43 X DRIVE Assy	(-235V to 215V)
3. 43 Y DRIVE Assy	(345V)
4. 43 SCAN A Assy	(345V)
5. 43 SCAN B Assy	(345V)
6. X CONNECTOR AAssy	(-235V to 215V)
7. X CONNECTOR B Assy	(-235V to 215V)

Discharge the VSUS voltage, as shown below:

[Method for discharging the VSUS voltage]

- 1. Set DRF_SW on the DIGITAL VIDEO Assy to ON (Drive OFF status). *1. 2
- 2. Leave the switch at that position for about 20-30 seconds.
- 3. If the power is on, turn it off. Then return DRF_SW to the OFF position. *3

Notes

- *1: You can also set the unit to "Drive OFF status" by sending the "DRF" RS232C command from the PC.
- *2: DRF_SW can be switched whether the power is on or off.
- *3: Power-down will occur if DRF_SW is set to OFF while the power is on. (See "7.1.6 Power on/off function for the large-signal system".)

: Part is Charged Section.

: Part is the High Voltage Generating Points other than the Charged Section.

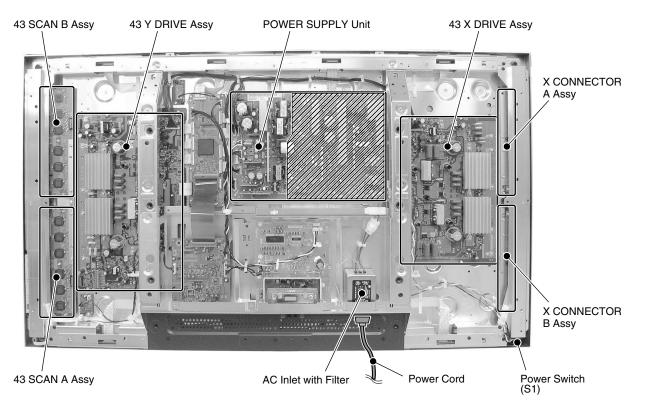


Fig.1 Charged Section and High Voltage Generating Point (Rear View)

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PDP-435PE

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In this manual, procedures that must be performed during repairs are marked with the below symbol.

Please be sure to confirm and follow these procedures.

1. Product safety

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Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

5 Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

(9) There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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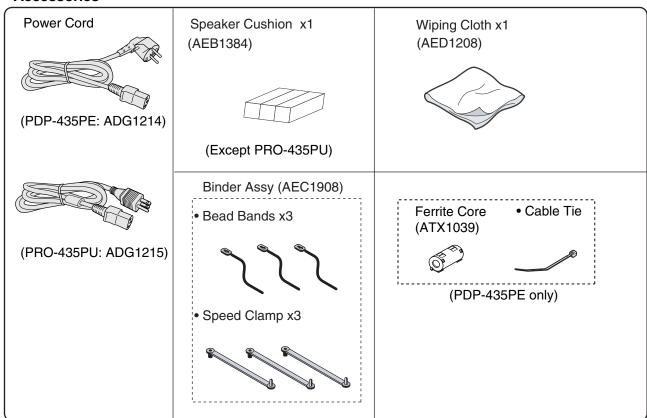
1. SPECIFICATIONS

43" Plasma Display

Item	Model: PDP-435PE
Number of Pixels	1024 x 768 pixels
Audio Amplifier	13 W + 13 W (1kHz, 10%, 8Ω)
Surround System	SRS/FOCUS/TruBass
Power Requirement	220-240V AC,50/60Hz,295W (0.4W Standby)
Dimensions	1120(W) x 652 (H) x 93 (D) mm
Weight	26.8 kg (59.1 lbs.)

ltem	Model: PRO-435PU
Number of Pixels	1024 x 768 pixels
Audio Amplifier	13 W + 13 W (1kHz, 10%, 8Ω)
Surround System	SRS/FOCUS/TruBass
Power Requirement	120V AC,60Hz,298W (0.2W Standby)
Dimensions	1120(W) x 652 (H) x 93 (D) mm (44 ¹ /8(W)x 25 ¹¹ / ₁₆ (H)x 3 ⁷ / ₈ (D)inches)
Weight	26.8 kg (59.1 lbs.)

Accessories



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2. EXPLODED VIEWS AND PARTS LIST

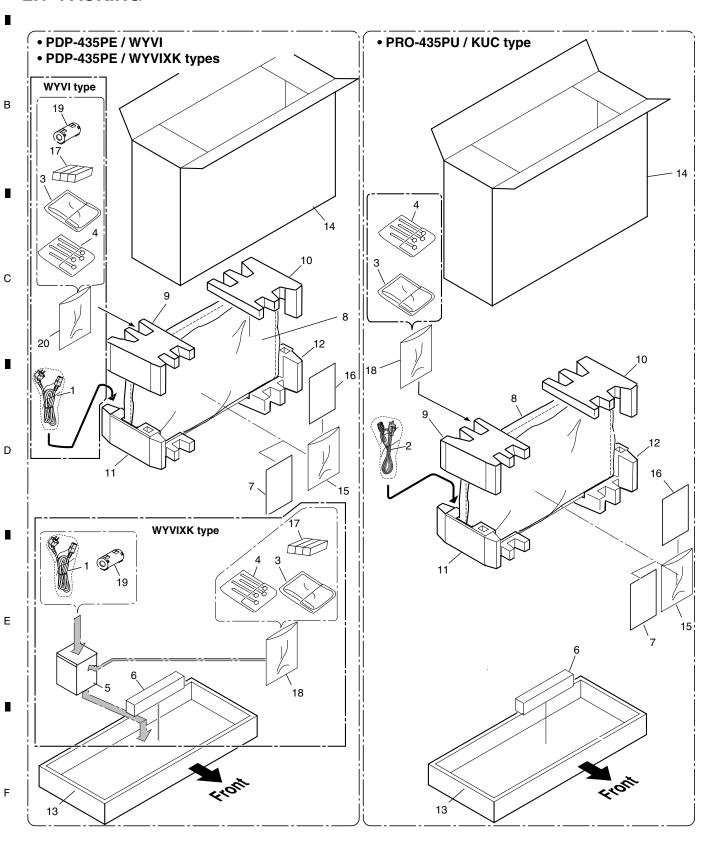
NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The

 ↑ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to **▼** mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

2.1 PACKING

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PACKING PARTS LIST

<u>Mark</u>	No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
<u> </u>	1	Power Cord	See Contrast table (2)	11	Pad	See Contrast table (2)
<u> </u>	2	Power Cord	See Contrast table (2)	12	Pad	See Contrast table (2)
	3	Wiping Cloth	AED1208	13	Carton (43)	See Contrast table (2)
	4	Binder Assy	AEC1908	14	Upper Carton	See Contrast table (2)
	5	Code Case	See Contrast table (2)	15	Vinyl Bag	See Contrast table (2)
	6	Center Pad (43)	See Contrast table (2)	16	Caution Card	ARM1232
NSP	7	Warranty Card	See Contrast table (2)	17	Speaker Cushion	See Contrast table (2)
	8	Mirror Mat	See Contrast table (2)	18	Vinyl Bag S	See Contrast table (2)
	9	Pad	See Contrast table (2)	19	Ferrite Core	See Contrast table (2)
	10	Pad	See Contrast table (2)	20	Poly Bag	See Contrast table (2)

(2) CONTRAST TABLE

PDP-435PE/WYVIXK, PRO-435PU/KUC and PDP-435PE/WYVI are constructed the same except for the following :

Mark	No.	Symbol and Description	PDP-435PE WYVI	PDP-435PE WYVIXK	PRO-435PU KUC
<u> </u>	1	Power Cord	ADG1214	ADG1214	Not used
<u> </u>	2	Power Cord	Not used	Not used	ADG1215
	5	Code Case	AHC1041	AHC1049	Not used
	6	Center Pad (43)	Not used	AHA2336	Not used
NSP	7	Warranty Card	ARY1114	ARY1114	ARY1134
	8	Mirror Mat	AHG1284	AHG1327	AHG1284
	9	Pad (43T-L)	AHA2362	Not used	AHA2362
	9	Pad (T-L)	Not used	AHA2381	Not used
	10	Pad (43T-R)	AHA2363	Not used	AHA2363
	10	Pad (T-R)	Not used	AHA2382	Not used
	11	Pad (43B-L)	AHA2364	Not used	AHA2364
	11	Pad (B-L)	Not used	AHA2383	Not used
	12	Pad (43B-R)	AHA2365	Not used	AHA2365
	12	Pad (B-R)	Not used	AHA2384	Not used
	13	Carton (43)	AHD3165	AHD3189	AHD3165
	14	Upper Carton (435PE)	AHD3264	Not used	Not used
	14	Upper Carton (43)	Not used	AHD3268	Not used
	14	Upper Carton (43EL)	Not used	Not used	AHD3270
	15	Vinyl Bag	AHG1340	Not used	AHG1340
	17	Speaker Cushion	AEB1384	AEB1384	Not used
	18	Vinyl Bag S	AHG1338	Not used	AHG1338
	19	Ferrite Core	ATX1039	ATX1039	Not used
	20	Poly Bag	Not used	AHG1326	Not used

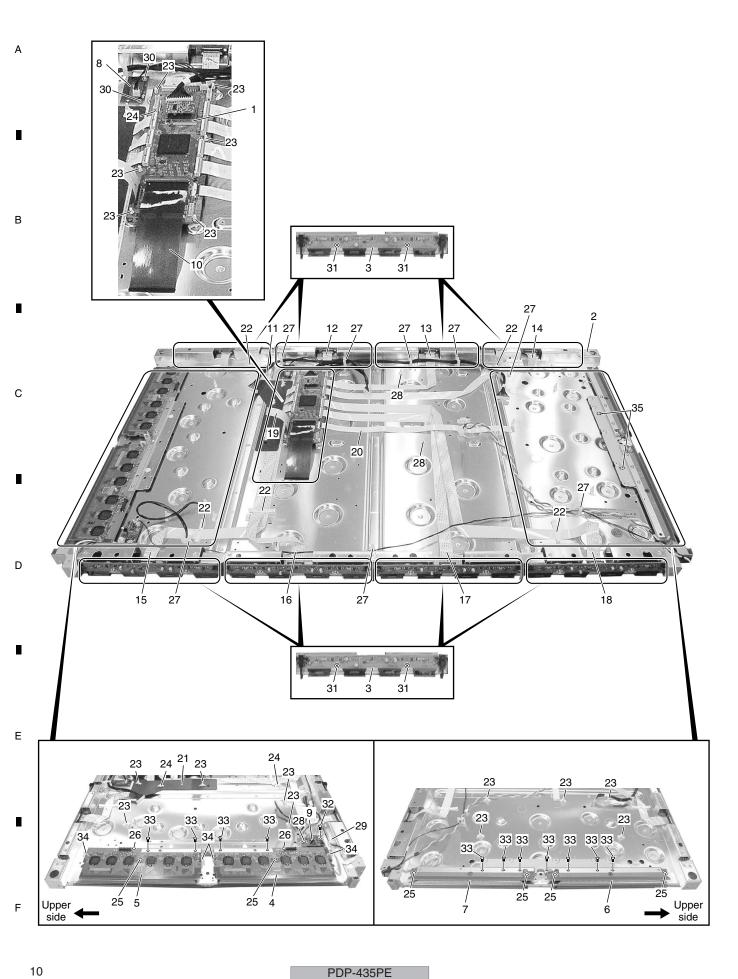
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2.2 CHASSIS SECTION (1)



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CHASSIS SECTION (1) PARTS LIST

<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
DIGITAL VIDEO Assy	AWV2074	19	Flexible Cable (J209)	ADD1223	
P. Chassis (435) Assy	See Contrast table (2)	20	Flexible Cable (J210)	ADD1224	Α
43 ADDRESS Assy	AWZ6862				
43 SCAN A Assy	AWZ6873	21	Y Drive Protect Sheet	AMR3346	
43 SCAN B Assy	AWZ6874	22	Flat Clamp	AEC1879	
		23	PCB Spacer	AEC1941	
X CONNECTOR A Assy	AWZ6875	24	PCB Support	AEC1938	
X CONNECTOR B Assy	AWZ6876	25	PCB Spacer	AEC1944	
PANEL SENSOR Assy	AWZ6872				
KEY CONTROL Assy	AWZ6844	26	PCB Support	AEC1958	
FPC (114P)	ADY1088	27	Wire Saddle	AEC1745	
		28	PCB Spacer	AEC1947	
Flexible Cable (J201)	ADD1215	29	Wire Clip	AEC1948	В
Flexible Cable (J202)	ADD1227	30	Nylon Rivet	AEC1671	
Flexible Cable (J203)	ADD1217				
Flexible Cable (J204)	ADD1218	31	Screw	VBB30P080FNI	
Flexible Cable (J205)	ADD1219	32	Screw	ABZ30P060FTC	
		33	Screw	PMB30P060FNI	
Flexible Cable (J206)	ADD1220	34	Edge Card Spacer	AEC1998	
Flexible Cable (J207)	ADD1221	NSP 35	Card Spacer	AEC2013	
Flexible Cable (J208)	ADD1222				
	DIGITAL VIDEO Assy P. Chassis (435) Assy 43 ADDRESS Assy 43 SCAN A Assy 43 SCAN B Assy X CONNECTOR A Assy X CONNECTOR B Assy PANEL SENSOR Assy KEY CONTROL Assy FPC (114P) Flexible Cable (J201) Flexible Cable (J202) Flexible Cable (J203) Flexible Cable (J204) Flexible Cable (J205) Flexible Cable (J206) Flexible Cable (J207)	DIGITAL VIDEO Assy P. Chassis (435) Assy See Contrast table (2) 43 ADDRESS Assy AWZ6862 43 SCAN A Assy AWZ6873 43 SCAN B Assy X CONNECTOR A Assy X CONNECTOR B Assy AWZ6876 PANEL SENSOR Assy KEY CONTROL Assy FPC (114P) ADY1088 Flexible Cable (J201) Flexible Cable (J202) Flexible Cable (J203) Flexible Cable (J204) Flexible Cable (J205) Flexible Cable (J206) Flexible Cable (J207) ADD1221 Flexible Cable (J207) ADD1221	DIGITAL VIDEO Assy	DIGITAL VIDEO Assy	DIGITAL VIDEO Assy

(2) CONTRAST TABLE

PDP-435PE/WYVIXK, PRO-435PU/KUC and PDP-435PE/WYVI are constructed the same except for the following :

	Mark	No.	Symbol and Description	PDP-435PE WYVI	PDP-435PE WYVIXK	PRO-435PU KUC
Ī	NSP	2	P. Chassis (435) Assy	AWU1091	AWU1091	Not used
	NSP	2	P. Chassis (435) Assy B	Not used	Not used	AWU1104

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PDP-435PE

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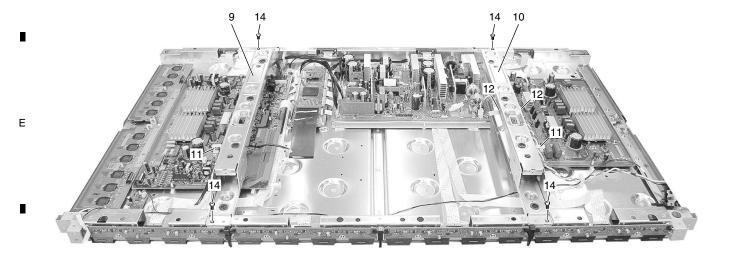
2.3 CHASSIS SECTION (2)

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Upper side

Upper side



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CHASSIS	SECTION	(2) PAF	RTS LIST

Mark No.		<u>Description</u>	Part No.
<u> </u>	1	POWER SUPPLY Unit	AXY1085
	2	43 X DRIVE Assy	AWZ6865
	3	43 Y DRIVE Assy	AWV2078
	4	Wire A (J101)	ADX2839
	5	11P Housing Wire (J102)	ADX2840
	6	12P Housing Wire (J103)	ADX2921
	7	9P Housing Wire (J106)	ADX2923
	8	3P Housing Wire (J109)	ADX2847
	9	SUB Frame L Assy (43P)	ANG2545
	10	SUB Frame R Assy (43P)	ANG2548
	11	Wire Saddle	AEC1745
	12	Edging Saddle	AEC1737
	13	Screw	ABZ30P060FTC
	14	Screw	AMZ30P080FTC
	15	Screw	VBB30P080FNI
	16	Screw	PMB30P060FNI

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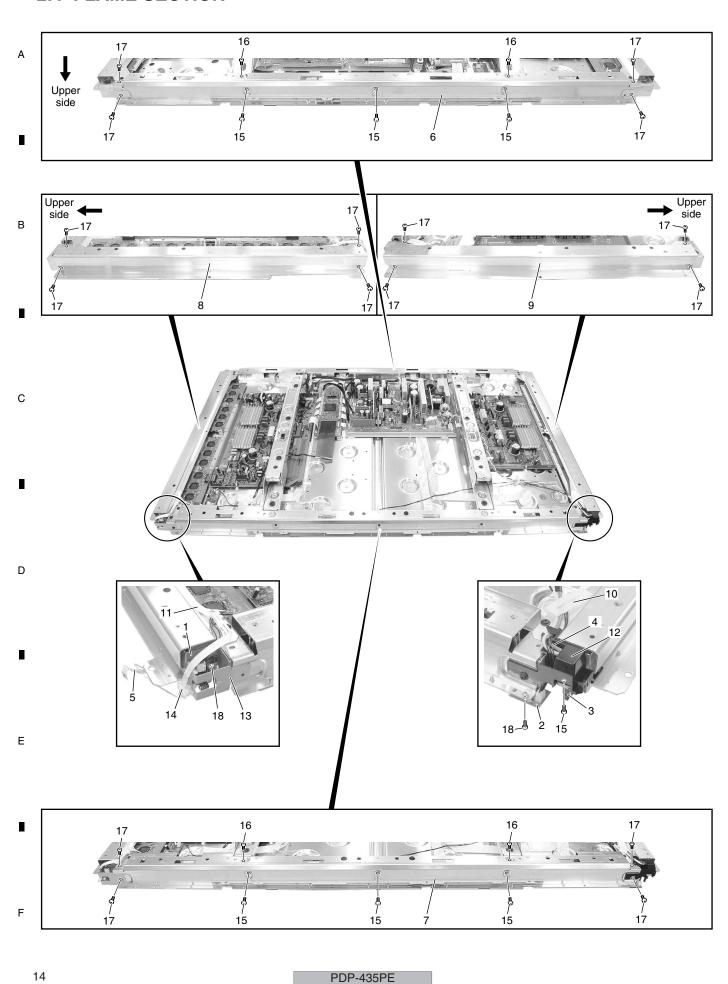
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2.4 FLAME SECTION



∎ FLAI	ME S	5 ECTION PARTS LIST	6	-	7	-	8	•
Mark		<u>Description</u>	Part No.					
	1	PANEL IR Assy	AWZ6845					
	2	PANEL LED Assy	AWZ6842					Α
<u> </u>	3	Power Switch (S1)	ASG1092					,,
	4	Housing Wire (43)(J110)	ADX2848					
	5	Flexible Cable (J211)	ADD1225					
	6	Front Chassis HU Assy (43)	ANA1787					_
	7	Front Chassis HD Assy (43)	ANA1788					
	8	Front Chassis VL (43)	ANA1790					
	9	Front Chassis VR (43)	ANA1791					
	10	Clamp	AEC1884					
	11	Flat Clamp	AEC1879					В
	12	Switch Holder	AMR3402					
	13	IR Holder	ANG2665					
	14	Wire Clip	AEC1948					
	15	Screw	BPZ30P080FTB					
	16	Screw	AMZ30P080FTC					
	17	Screw	AMZ30P060FTB					
	18	Screw	ABZ30P060FTC					
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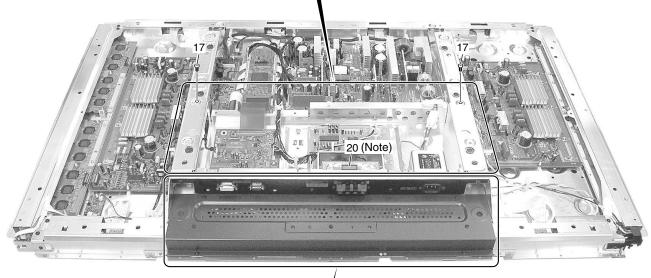
• Back side 12 (Note) 12 (Note)

Note: The No. 12 parts must be inserted from the front surface.

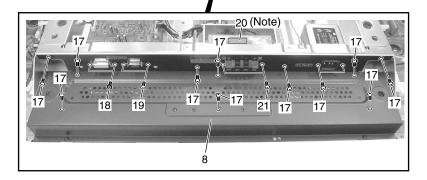
• Front side 4 3 15 6 1

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• Front side 4 3 15 5 16



Note: When servicing, be sure to glue on the Gasket (AU) and make sure that they won't peel off.



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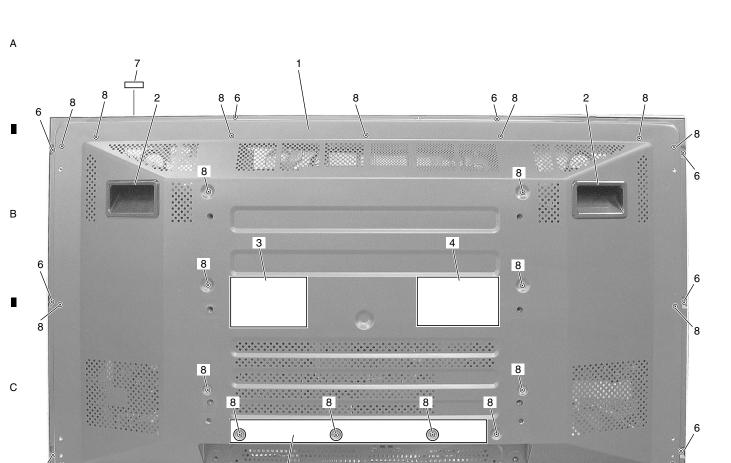
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Mark	<u>No.</u>	<u>Description</u>	Part No.
	1	PANEL IF Assy	AWZ6841
	2	HD AUDIO AMP Assy	AWZ6863
	3	HD SP TERMINAL Assy	AWZ6864
<u> </u>	4	AC Inlet (CN1)	AKP1263
	5	3P/8P Housing Wire (J104)	ADX2922
	6	13P Housing Wire (J105)	ADX2843
	7	Multi Base (P) Assy	ANA1786
	8	Under Cover Assy	ANG2589
	9	Locking Card Spacer V0	AEC2005
	10	Edge Saddle	AEC1946
	11	Clamp	AEC1884
	12	PCB Spacer	AEC1941
	13	HL 18	AEC1980
	14	SB Spacer	AEC2002
	15	Wire Saddle	AEC1745
		_	
	16	Screw	PMB30P060FNI
	17	Screw	AMZ30P060FTB
	18	Hexagon Headed Screw	BBA1051
	19	Screw	PMZ26P060FTB
	20	Gasket (AU)	ANK1745
	21	Screw	BPZ30P080FTB

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REAR SECTION PARTS LIST

8 6

	Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
	1	Rear Case (43P)	ANE1625	6	Screw	ABZ30P100FTB
Е	2	Inner Grip Assy	AMR3434	7	Serial Sheet	AAX3143
	NSP 3	Name Label	See Contrast table (2)	8	Screw	AMZ30P060FTB
	4	Volt caution Label	See Contrast table (2)			
	5	Terminal Label	See Contrast table (2)			

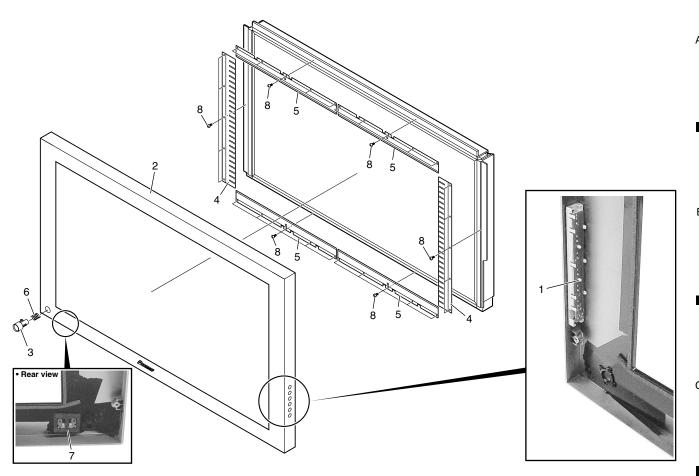
(2) CONTRAST TABLE

PDP-435PE/WYVIXK, PRO-435PU/KUC and PDP-435PE/WYVI are constructed the same except for the following:

	Mark	No.	Symbol and Description	PDP-435PE WYVI	PDP-435PE WYVIXK	PRO-435PU KUC
Ī	NSP	3	Name Label	AAL2567	AAL2571	AAL2569
		4	Volt Caution Label	AAX3117	AAX3005	AAX3117
		5	Terminal Label	AAX2998	AAX3006	AAX2997

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2.7 FRONT PANEL SECTION



FRONT PANEL SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	<u>Description</u>	Part No.
1	PANEL KEY Assy	AWZ6843	6	Coil Spring	ABH1114
2	Front Case Assy	See Contrast table (2)	7	Blind Cushion	AEB1383
3	Power Button	AAD4127	8	Screw	ABZ30P060FTC
NSP 4	Panel Holder V (43)	ANG2661			

(2) CONTRAST TABLE

NSP 5 Panel Holder Assy 43

PDP-435PE/WYVIXK, PRO-435PU/KUC and PDP-435PE/WYVI are constructed the same except for the following :

Mark	No.	Symbol and Description	PDP-435PE WYVI	PDP-435PE WYVIXK	PRO-435PU KUC
	2	Front Case Assy (43PE)	AMB2833	AMB2833	Not used
	2	Front Case Assy (43EL)	Not used	Not used	AMB2835

ANG2674

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2.8 PANEL CHASSIS (435) Assy (AWU1091) for PDP-435PE

PANEL CHASSIS (435) Assy (AWU1091) PARTS LIST

	Mark No.	Description	Part No.	Mark No.	<u>Description</u>	Part No.
Α	NSP	143 ADDRESS Assy	AWV2076	NSP	Tape	ZTC-POLYCA-20
	NSP	243 ADDRESS Assy	AWZ6862	NSP	Tape	ZTC-900UL-15
	NSP	143 SCAN Assy	AWV2079	NSP	Silicone Rubber	ZTX-HC20-15
	NSP	243 SCAN A Assy	AWZ6873	NSP	Silicone Rubber	ZTX-HC50-15
	NSP	243 SCAN B Assy	AWZ6874	NSP	Wiping Cloth	ZTX-MX100-13
	NSP	2X CONNECTOR A Assy	AWZ6875			
	NSP	2X CONNECTOR B Assy	AWZ6876	NSP	Film	ZTX-2102Y35-2R5
				NSP	Film	ZTX-2102Y45-5
	NSP	P. Panel (43LC) Assy	AWU1102			
	NSP	Adress Module (IC1-IC32)	AXF1126			
В	NSP	FPC (43XGA-X)	ADY1079			
	NSP	FPC (43XGA-Y)	ADY1080			
	NSP	Chassis Assy (435)	ANA1802			
		PCB Spacer	AEC1944			
		PCB Support	AEC1958			
		Edge Card Spacer	AEC1998			
		Rivet (Plastic)	AMR1066			
		FC Spacer	AMR3370			
	NSP	Adhesive	ZBA-KE3424S			
С	NSP	Lotion	ZLX-AP7			
	NSP	Tape	ZTA-8101-12			
	NSP	Double Faced Tape	ZTB-5015-18			
	NSP	Silicone Rubber	ZTC-EM7KB0R85T-15W			

■ 2.9 PANEL CHASSIS (435) Assy B (AWU1104) for PRO-435PU

PANEL CHASSIS (435) Assy B (AWU1104) PARTS LIST

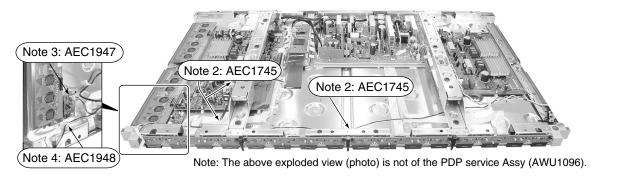
	Mark No.	Description	Part No.	Mark No.	<u>Description</u>	Part No.
	NSP	143 ADDRESS Assy	AWV2076	NSP	Tape	ZTC-POLYCA-20
_	NSP	243 ADDRESS Assy	AWZ6862	NSP	Tape	ZTC-900UL-15
D	NSP	143 SCAN Assy	AWV2079	NSP	Silicone Rubber	ZTX-HC20-15
	NSP	243 SCAN A Assy	AWZ6873	NSP	Silicone Rubber	ZTX-HC50-15
	NSP	243 SCAN B Assy	AWZ6874	NSP	Wiping Cloth	ZTX-MX100-13
	NSP	2X CONNECTOR A Assy	AWZ6875			
	NSP	2X CONNECTOR B Assy	AWZ6876	NSP	Film	ZTX-2102Y35-2R5
				NSP	Film	ZTX-2102Y45-5
	NSP	P. Panel (43LC) Assy	AWU1105			
	NSP	Adress Module (IC1-IC32)	AXF1126			
	NSP	FPC (43XGA-X)	ADY1079			
	NSP	FPC (43XGA-Y)	ADY1080			
Е	NSP	Chassis Assy (435)	ANA1802			
		PCB Spacer	AEC1944			
		PCB Support	AEC1958			
		Edge Card Spacer	AEC1998			
		Rivet (Plastic)	AMR1066			
-		FC Spacer	AMR3370			
	NSP	Adhesive	ZBA-KE3424S			
	NSP	Lotion	ZLX-AP7			
	NSP	Tape	ZTA-8101-12			
F	NSP	Double Faced Tape	ZTB-5015-18			
	NSP	Silicone Rubber	ZTC-EM7KB0R85T-15W			

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PDP SERVICE Assy (AWU1096) PARTS LIST

<u>MarkNo.</u>	<u>Description</u>	Part No.	
NSP	1P.Chassis (435) Assy	AWU1091	
	1Front Chassis HU (43)	ANA1787	
	1Front Chassis HD (43)	ANA1788	
	1Front Chassis VL (43)	ANA1790	
	1Front Chassis VR (43)	ANA1791	
	1Sub Frame L Assy (43P)	ANG2545	
	1Sub Frame R Assy (43P)	ANG2548	
	1Edging Saddle	AEC1737 (Note 1)	Note 1: The one provided with the AHG-195 is not used.
	1Wire Saddle	AEC1745 (Note 2)	Note 2: The three AEC1745s provided with the AHG-195 must be
	1PCB Support	AEC1938	inserted in the designated places.
	1PCB Spacer	AEC1941	Note 3: The one provided with the AHG-195 must be inserted in
	1PCB Spacer	AEC1947 (Note 3)	the designated place.
	1Wire Clip	AEC1948 (Note 4)	Note 4: The one provided with the AHG-195 must be inserted in the designated place.
	1Locking Wire Saddle	AEC1966 (Note 5)	Note 5: This part is not used.
	1Card Spacer	AEC2013	Note 5. This part is not used.
	1Y drive Protect Sheet	AMR3346	
	1Caution Label	AAX3031	
	1Drive Voltage Label	ARW1097	
	1Screw	ABZ30P100FTB	
	1Screw	AMZ30P060FTB	
	1Screw	AMZ30P080FTC	
	1Screw	VBB30P080FNI	
	1Screw	BPZ30P080FZB	
NSP	1Front Case Assy (435SVC)	AMB2841 \	
	2Panel Cushion H (43)	AED1255	
	2Panel Cushion V (43)	AED1256	Note 6: These parts are only for transporting the Assy. Do NOT
NSP	2Front Case (43P)	AMB2821	use them when making repairs.
	1Rear Case (43P)	ANE1612	
NSP	1Vinyl Pouch	AHG-195	
	1Pad (43T-L)	AHA2362	
	1Pad (43T-R)	AHA2363	
	1Pad (43B-L)	AHA2364	
	1Pad (43B-R)	AHA2365	
	1Carton(43)	AHD3165	
	1Upper Carton (435SVC)	AHD3267	
	1Protect Sheet	AHG1331	

Location of parts



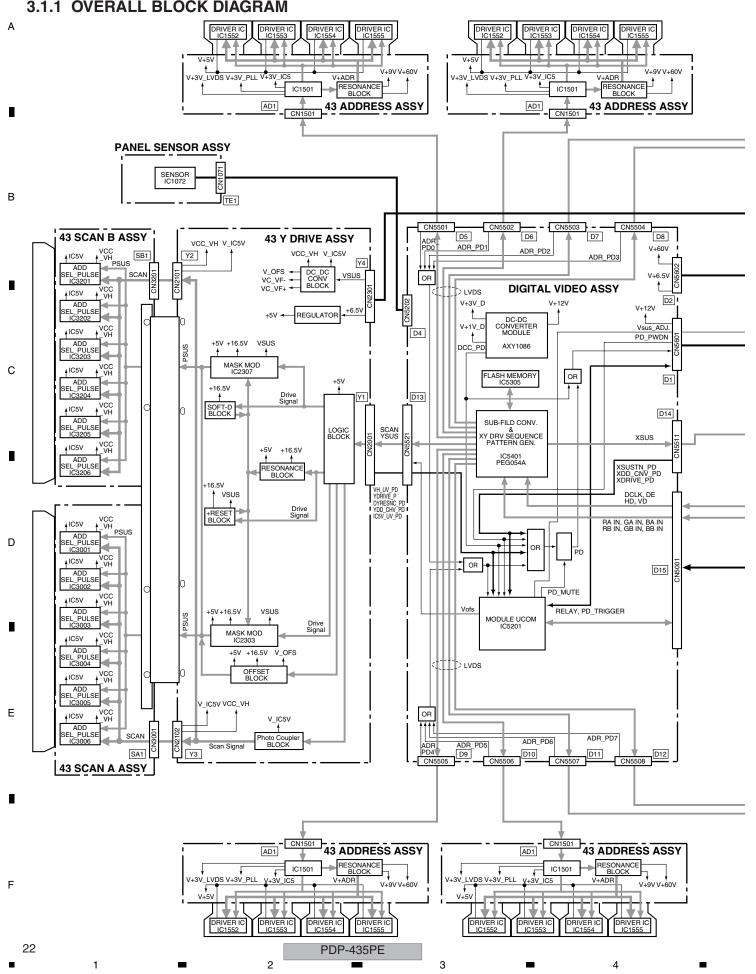
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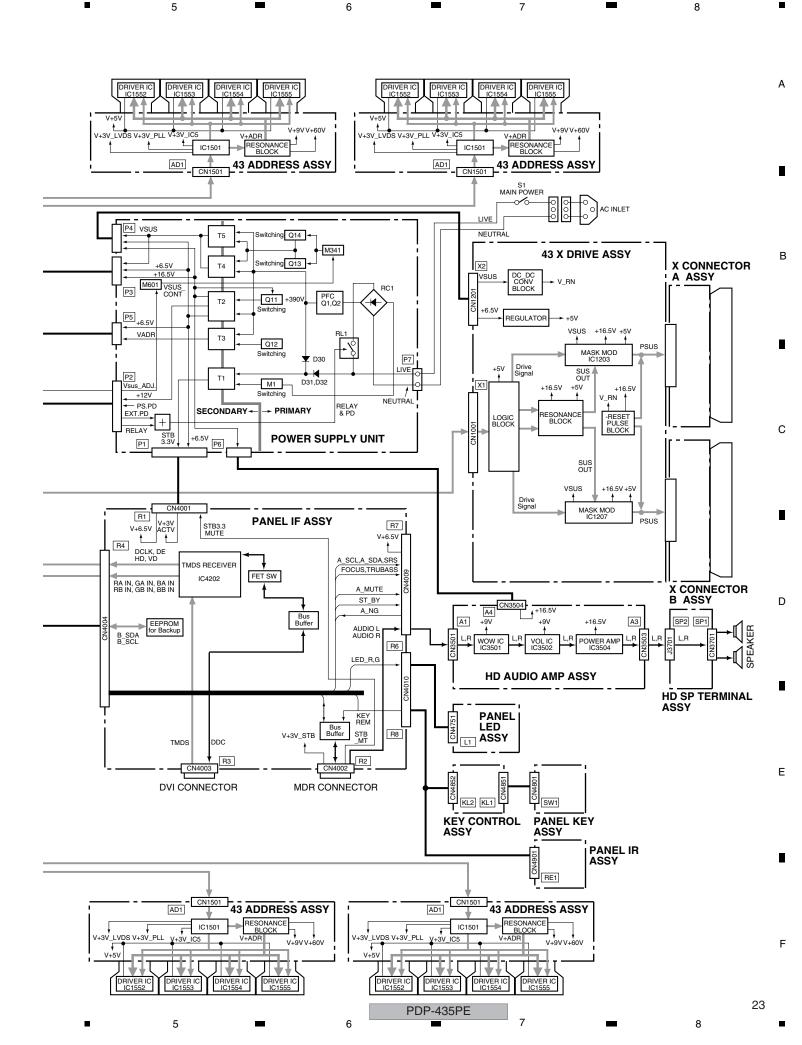
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3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

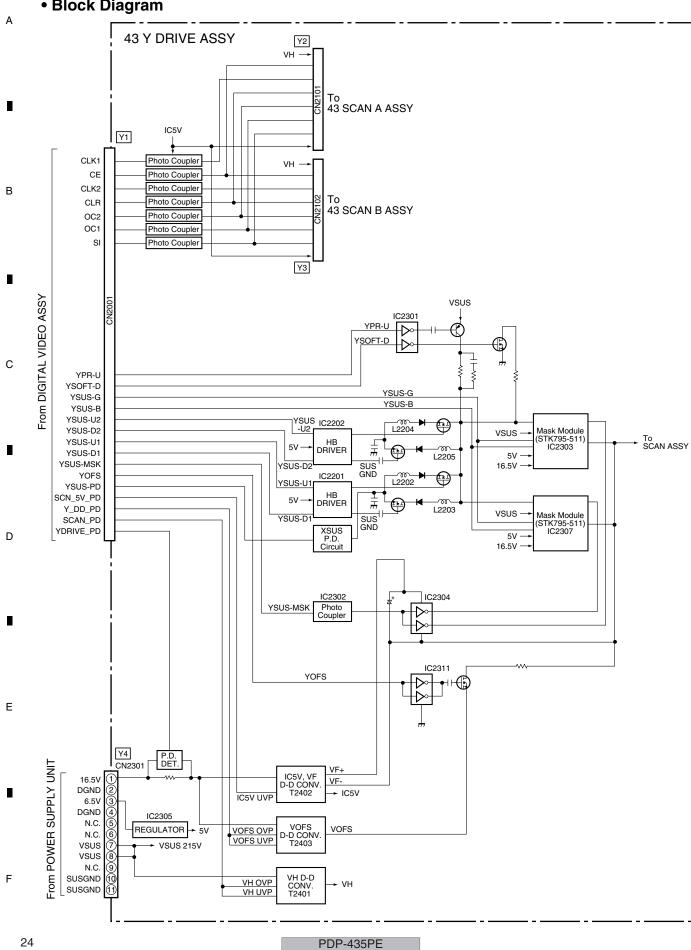
3.1 BLOCK DIAGRAM

3.1.1 OVERALL BLOCK DIAGRAM





Block Diagram



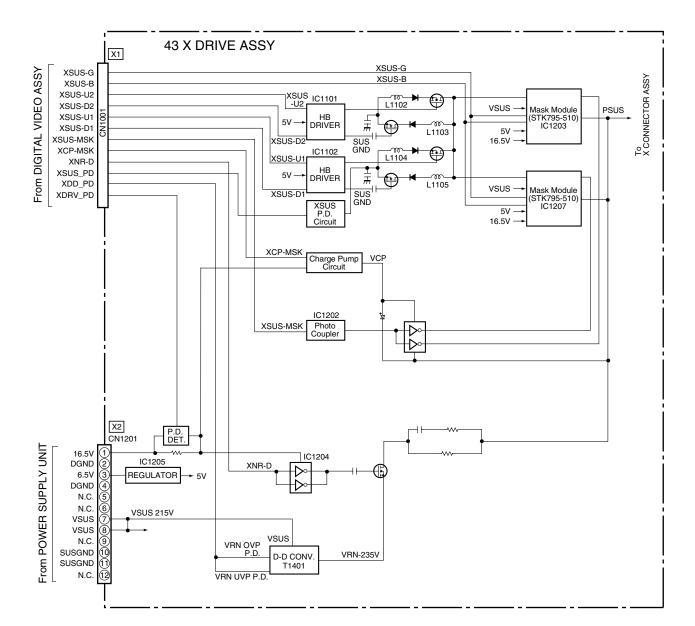
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• Block Diagram



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PDP-435PE

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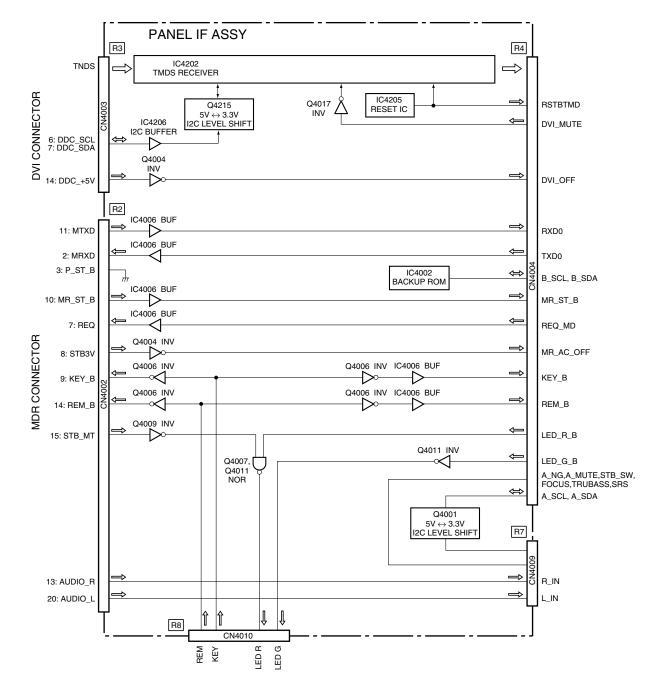
• Block Diagram

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PDP-435PE

3

Voltages

CN4001 (R1) < ⇔ POWER SUPPLY UNIT >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	6.5V	ı	+6.5V power supply	+6.8VDC
2	6.5V	ı	+6.5V power supply	+6.8VDC
3	Vcc_GND	_	GND	
4	Vcc_GND	_	GND	
5	STB3.3V	ı	Power supply +3.3V input of module UCOM at panel side	+3.3VDC
6	STB_GND	_	GND	
7	STB3.3MUTE	0	Standby control (+3.3V mute)	+3.3 VDC
8	AC_DET	I	Primary power supply (AC) state input at panel side	+3.0VDC

CN4002 (R2) < ⇔ MEDIA RECEIVER >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	MR_ST_B	ı	Connection state detecting signal with MR	0VDC
2	MRXD	0	UART communication transmission data with the main UCOM (external PC) at MR side	0-3.3V amplitude square wave
3	P_ST_B	0	Connection state output for the MR	0VDC
4	ACT3V	0	Power supply +3.3V output of module UCOM at panel side	+3.3VDC
5	AC_OFF	0	Primary power supply (AC) state output at panel side	0VDC
6	GND	_	GND	
7	REQ	0	Communication request to the main UCOM (external PC) at the MR	0-3.3V amplitude square wave
8	STB3V	ı	Standby power supply (+3.3V) input from the MR	+3.3VDC
9	KEY_B	0	Function key code signal output at panel side	0-3.3V amplitude square wave (at key operation)
10	MR_ST_B'	I	Connection state detecting signal with the MR	0VDC
11	MTXD	I	UART communication receive data with the main UCOM (external PC) at the MR side	0-3.3V amplitude square wave
12	GND	_	GND	
13	AUDIO_R	ı	R ch audio signal input	Audio R signal
14	REM_B	0	Remote control code signal output	0-3.3V amplitude square wave (at remocon code transmission)
15	STB_MT	I	Standby control input	0VDC
16	GND	_	GND	
17	NC	_	Not connected	_
18	FIELD	ı	FIELD control signal	0VDC
19	GND	_	GND	
20	AUDIO_L	I	L ch audio signal input	Audio L signal

CN4003 (R3) < ⇔ MEDIA RECEIVER >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	RX2-	ı	DVI signal	DVI differential signal (-)
2	RX2+	ı	DVI signal	DVI differential signal (+)
3	GND	ı	GND	
4	N.C	_	Not connected	_
5	N.C	_	Not connected	_
6	DDC_SCL		I2C signal for DDC	0-5V amplitude square wave
7	DDC_SDA	- 1	I2C signal for DDC	0-5V amplitude square wave
8	N.C	_	Not connected	_
9	RX1-		DVI signal	DVI differential signal (-)
10	RX1+	ı	DVI signal	DVI differential signal (+)
11	GND	_	GND	
12	N.C	ı	Not connected	_
13	N.C	_	Not connected	_
14	DDC_+5V	ı	I2C power supply for DDC	+5VDC
15	GND	_	GND	
16	HPD	0	Hot plug detection	+5VDC
17	RX0-	I	DVI signal	DVI differential signal (-)
18	RX0+	ı	DVI signal	DVI differential signal (+)
19	GND	_	GND	
20	N.C	_	Not connected	-
21	N.C	_	Not connected	_

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PDP-435PE

Voltages

В

CN4003 (R3) < ⇔ MEDIA RECEIVER >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
22	GND	_	GND	
23	RXC+	I	DVI signal	DVI differential signal (-)
24	RXC-	I	DVI signal	DVI differential signal (+)

3

CN4009 (R7) < ⇔ HD AUDIO AMP ASSY >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	A_NG	ı	Abnormal detecting signal of the audio block	+3.3V DC
2	V+6.5	0	+6.5V power supply	+6.8V DC
3	GNDA	_	GND	
4	L_IN	0	L ch audio signal	Audio L signal
5	GNDA	_	GND	
6	R_IN	0	R ch audio signal	Audio R signal
7	ST_BY	0	Standby signal of the audio block	+3.3V DC
8	A_MUTE	0	Audio mute signal input	0V DC
9	SCL	0	I2C control signal for audio	0-3.3V amplitude square wave
10	SDA	0	I2C control signal for audio	0-3.3V amplitude square wave
11	FOCUS	0	Focus function control signal	+3.3V DC
12	SRS	0	SRS function control signal	+3.3V DC
13	TRUBASS	0	TRUBASS function control signal	+3.3V DC

CN4010 (R8) $< \Leftrightarrow$ PANEL LED ASSY, PANEL IR ASSY, KEY CONTROL ASSY >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	LED_G	0	LED control (green)	+2.1VDC
2	LED_R	0	LED control (red)	0VDC
3	AC_OFF	0	Primary power supply (AC) state output at the panel side	0VDC
4	STB3V	0	+3.3V power supply	+3.3V DC
5	STBGND	_	GND	
6	REM	I	Remote control code signal input	0-3.3V amplitude square wave (at remocon code transmission)
7	STB+3V	0	+3.3V power supply	+3.3V DC
8	KEY	I	Function key code signal input at the panel side	0-3.3V amplitude square wave (at key operation)
9	STBGND	_	GND	

CN4801 (SW1) < ⇔ KEY CONTROL ASSY >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input		
1	STBGND	_	GND	0V DC		
2	G1	0	Key scan signal	0V DC		
3	G0	0	Key scan signal	0V DC		
4	D5	1	Key scan signal	+3.3V DC		
5	D6	ı	Key scan signal	+3.3V DC		
6	D7	ı	Key scan signal	+3.3V DC		

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• Voltages

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CN4004 (R4) <⇔ DIGITAL VIDEO ASSY > (1/2)

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	GND	_	GND	_
2	GND	_	GND	_
3	GND		GND	_
4	GND	_	GND	_
5	BA0	0	8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
6	BA1	0	8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
7	BA2	0	8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
8	BA3		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
9	BA4	0	8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
10	BA5		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
11	BA6	0	8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
12	BA7	0	8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
13	GND		GND	_
14	GND		GND	_
15	GND	_	GND	_
16	GND	-	GND	_
17	GA0	0	8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
18	GA1		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
19	GA2		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
20	GA3		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
21	GA4	0	8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
22	GA5		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
23	GA6	0	8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
24	GA7	0	8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
25	GND	_	GND	_
26	GND	_	GND	_
27	GND	_	GND	_
28	GND	-	GND	_
29	RA0		8bit video signal output (RED even number)	0-3.3V amplitude square wave
30	RA1	0	8bit video signal output (RED even number)	0-3.3V amplitude square wave
31	RA2		8bit video signal output (RED even number)	0-3.3V amplitude square wave
32	RA3		8bit video signal output (RED even number)	0-3.3V amplitude square wave
33	RA4		8bit video signal output (RED even number)	0-3.3V amplitude square wave
34	RA5		8bit video signal output (RED even number)	0-3.3V amplitude square wave
35	RA6		8bit video signal output (RED even number)	0-3.3V amplitude square wave
36	RA7	0	8bit video signal output (RED even number)	0-3.3V amplitude square wave
37	GND\	_	GND	_
	DCLK	0	Synchronous signal output (clock)	0-3.3V amplitude square wave (42.5MHz)
39	GND	_	GND	_
40	DEI	_	Synchronous signal output (data enable)	0-3.3V amplitude square wave (positive polarity)
41	HDI	_	Synchronous signal output (Horizontal sync.)	0-3.3V amplitude square wave (negative polarity)
42	VDI		Synchronous signal output (Vertical sync.)	0-3.3V amplitude square wave (negative polarity)
43	FIELD	0	FIELD control signal	OV DC
44	APL_DT		Not connected	_
45	GND	_	GND	-
46	GND		GND	-
47	BB0		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
48	BB1		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
49	BB2	_	8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
	BB3		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
51	BB4		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
52	BB5		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
53	BB6		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
54	BB7	0	8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
55	GND	_	GND	_
56	GND	-	GND	-
57	GND	_	GND	_
58	GND	_	GND	_

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PDP-435PE 7

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CN4004 (R4) $< \Leftrightarrow$ DIGITAL VIDEO ASSY > (2/2)

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No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
59	GB0	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
60	GB1	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
61	GB2	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
62	GB3	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
63	GB4	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
64	GB5	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
65	GB6	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
66	GB7	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
67	GND	_	GND	
68	GND	_	GND	
69	GND	_	GND	
70	GND	_	GND	
71	RB0	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
72	RB1	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
73	RB2	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
74	RB3	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
75	RB4	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
76	RB5	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
77	RB6	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
78	RB7	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
79	GND	_	GND	P see a see
80	MASK		Not connected	_
81	MODE		Not connected	_
82	MODEL		Not connected	_
83	DITHER		Not connected	_
84	V+3VACTV	0	Power supply +3.3V output of module UCOM at panel side	+3.3VDC
85	B_SDA	Ī	E2PROM control signal for backup	0-3.3V amplitude square wave
86	RXD0	0	UART communication receive data with the main UCOM (external PC) at MR side	0-3.3V amplitude square wave
87	REM_B	0	Remote control code signal output	0-3.3V amplitude square wave (at remoco
88	TXD0	ı	UART communication transmission data with the main UCOM (external PC) at MR side	0-3.3V amplitude square wave
89	KEY_B	0	Function key code signal output at panel side	0-3.3V amplitude square wave (at key operation)
90	REQ_MD	ı	Communication request to the main UCOM at MR side	0-3.3V amplitude square wave
91	LED_R_B	ı	LED control (red)	+3.3VDC
92	MR_AC_OFF	0	AC state output at MR side	OVDC
93	LED_G_B	ı	LED control (green)	OVDC
94	POWER		Not connected	-
95	DVI_MUTE	I	DVI mute signal input	0VDC
96	MR_ST_B	0	Connection state detecting signal with MR	0VDC
97	A_MUTE	1	Audio mute signal input	0VDC
98	OP_DET		GND	
99	A_NG	0	Abnormal detecting signal of audio block	+3.3VDC
100	PNL_MUTE		Not connected	_
101	A_SCL	- 1	I2C control signal for audio	0-3.3V amplitude square wave
102	STB_SW	- 1	Standby signal of audio block	+3.3VDC
103	A_SDA	I	I2C control signal for audio	0-3.3V amplitude square wave
104	DDC_WP	1	GND	
105	TRUBASS	ı	TRUBASS function control signal	+3.3VDC
106	B_SCL	ı	E2PROM control signal for backup	0-3.3V amplitude square wave
107	FOCUS	ı	FOCUS function control signal	+3.3VDC
108	DVI_OFF	0	Connection detecting signal of DVI connector	0VDC
	SRS	ı	SRS function control signal	+3.3VDC
	RSTBTMD	0	TMDS IC reset signal	+3.3VDC
	MAX_PLS1		Not connected	-
	L_SYNC	0	TMDS IC synchronous detecting signal	+3.3VDC
	MAX_PLS2		Not connected	_
113	1V17 U. L. L. C. L.			

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3.1.5 DIGITAL VIDEO ASSY

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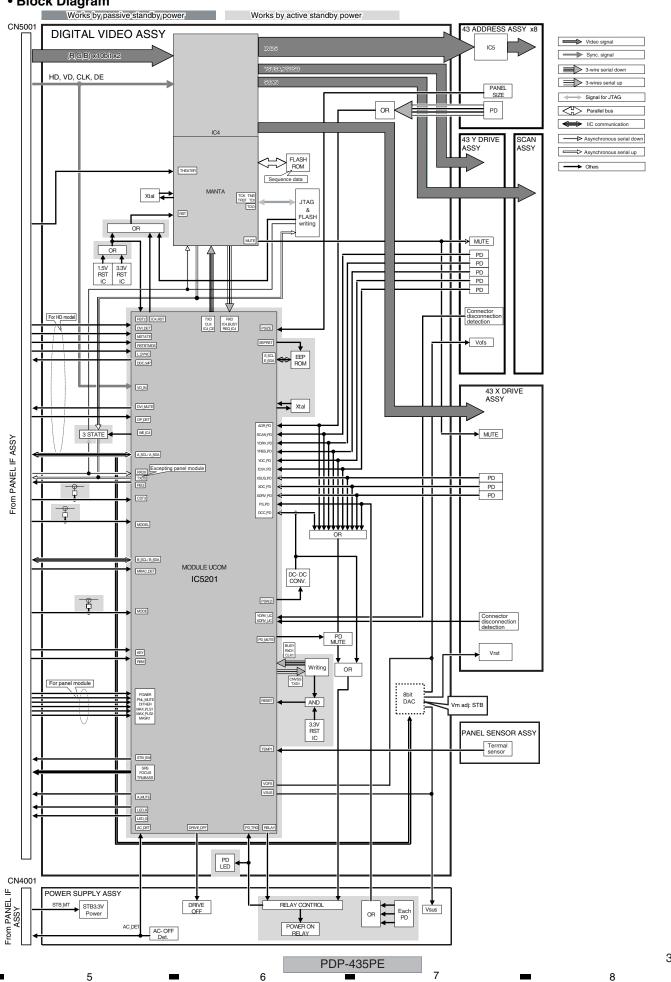
В

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• Block Diagram



• Voltages

1

CN5601 (D1)

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	+12V	ı	+12V power input	+12VDC
2	+12V	I	+12V power input	+12VDC
3	GND_D	_	GND	
4	GND_D	_	GND	
5	PD	0	Power down signal	0VDC
6	VSUS_ADJ	0	VSUS adjustment signal	
7	PS_PD	I	Power-down detecting signal of POWER SUPPLY block	0VDC
8	RELAY	0	Relay control signal	+3.3VDC
9	DRF	0	Drive control signal	0VDC
10	AC_DET	ı	Primary side power (AC) state output at panel side	+3.0VDC
11	PD_TRIGGER	I	Power down trigger	+3.3VDC

3

2

CN5602 (D2)

В

С

D

Ε

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	VADR	ı	Address drive power (+61V) input	+61VDC
2	VADR	ı	Address drive power (+61V) input	+61VDC
3	N.C		Not connected	
4	GND_ADR	_	GND	
5	GND_ADR	_	GND	
6	+6.5V	I	+6.5V power input	+6.8VDC
7	GND_D	_	GND	

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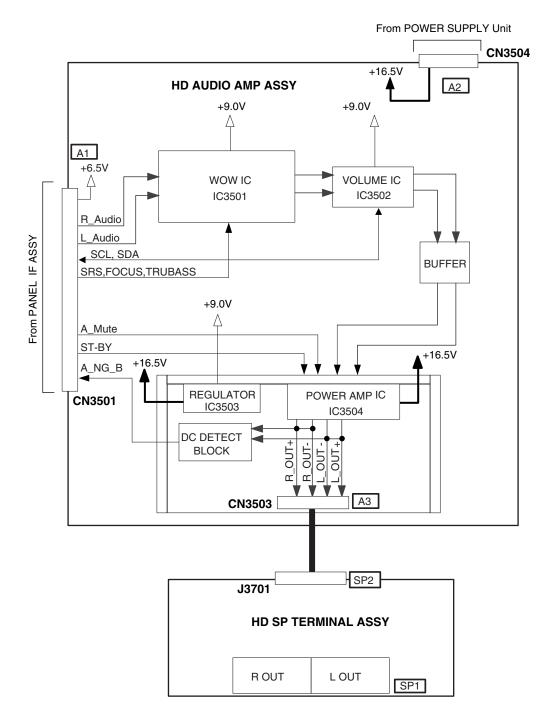
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PDP-435PE

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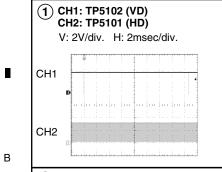
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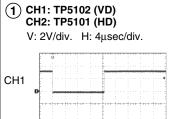
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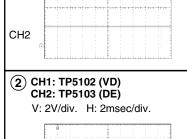
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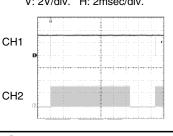
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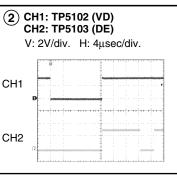
DIGITAL VIDEO ASSY (4/6) DIGITAL IF BLOCK

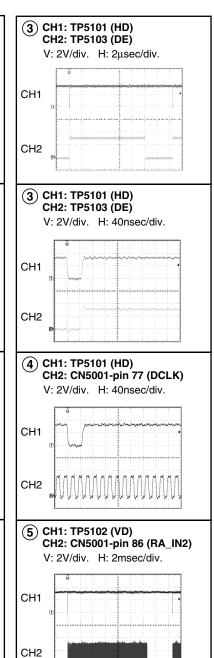






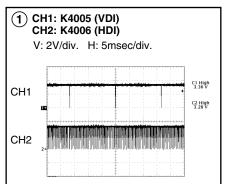


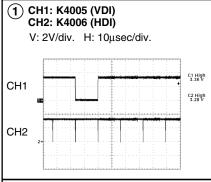


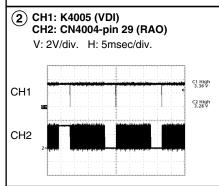


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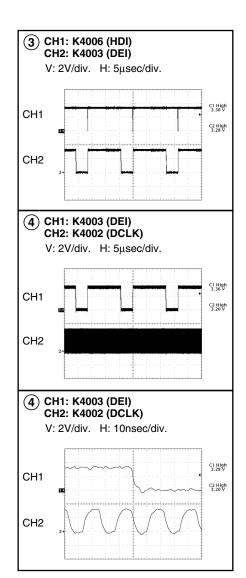
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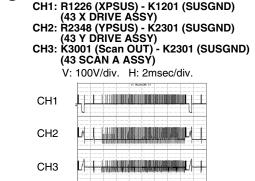
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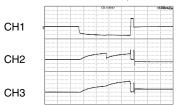
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43 X DRIVE ASSY, 43 Y DRIVE ASSY and 43 SCAN A ASSY 43 X SUS BLOCK, 43 Y LOGIC BLOCK, 43 Y SUS BLOCK



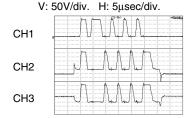
1 Drive Output Waveform (1 field,color-bar)

1 Reset Pulse
CH1: R1226 (XPSUS) - K1201 (SUSGND)
(43 X DRIVE ASSY)
CH2: R2348 (YPSUS) - K2301 (SUSGND)
(43 Y DRIVE ASSY)
CH3: K3001 (Scan OUT) - K2301 (SUSGND)
(43 SCAN A ASSY)
V: 100V/div. H: 100μsec/div.

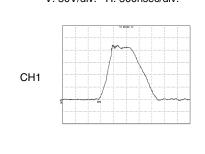


CH1: R1226 (XPSUS) - K1201 (SUSGND)
(43 X DRIVE ASSY)
CH2: R2348 (YPSUS) - K2301 (SUSGND)
(43 Y DRIVE ASSY)
CH3: K3001 (Scan OUT) - K2301 (SUSGND)
(43 SCAN A ASSY)

1 Sustain Pulse (1 sub-sub-field)



(2) Sustain Waveform
CH1: R2348 (YPSUS) - K2301 (SUSGND)
(43 Y DRIVE ASSY)
V: 50V/div. H: 500nsec/div.



3 Control Signal (Sustain Waveform Gen.)

CH2: K2016 (YSUS-G) - K2010 (DGND)

CH3: K2025 (YSUS-U1) - K2010 (DGND)

CH4: K2022 (YSUS-U2) - K2010 (DGND)

CH5: K2026 (YSUS-B) - K2010 (DGND)

CH6: K2024 (YSUS-D2) - K2010 (DGND)

CH7: K2027 (YSUS-D1) - K2010 (DGND)

(43 Y DRIVE ASSY)

V: 1V/div. H: 500nsec/div.

CH2

CH3

CH4

CH5

CH6

CH6

CH7

4 Scan Control Signal (1 field, color-bar)

CH2: K2006 (SI) - K2029 (DGND)

CH3: K2009 (OC1) - K2029 (DGND)

CH4: K2004 (OC2) - K2029 (DGND)

CH5: K2007 (CLR) - K2029 (DGND)

CH6: K2003 (CLK2) - K2029 (DGND)

CH7: K2008 (LE) - K2029 (DGND)

(43 Y DRIVE ASSY)

V: 1V/div. H: 2msec/div.

CH2

CH3

CH4

CH5

CH6

(5) X Drive Pulse Control Signal (color-bar)
CH1: R1226 (XPSUS) - K2301 (SUSGND)
V: 100V/div. H: 2msec/div.
CH2: K1016 (XCP-MSK) - K1020 (DGND)
CH3: K1015 (XSUS-MSK) - K1020 (DGND)
CH4: K1014 (XNR-D) - K1020 (DGND)
V: 1V/div. H: 2msec/div.
(43 X DRIVE ASSY)

CH1
CH2
CH3

6 Y Drive Pulse Control Signal (color-bar)

CH1: R2348 (YPSUS) - K2301 (SUSGND)

V: 50V/div. H: 2msec/div.

CH2: K2015 (YSUS-MSK) - K2010 (DGND)

CH3: K2017 (YSOFT-D) - K2010 (DGND)

CH4: K2023 (YPR-U) - K2010 (DGND)

V: 1V/div. H: 2msec/div.

(43 Y DRIVE ASSY)

CH1

CH2

CH3

CH4

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В

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CH4

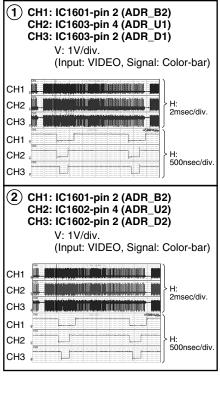
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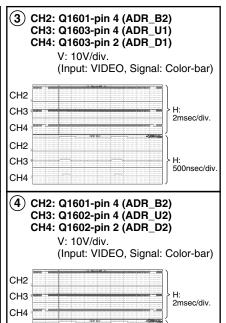
В

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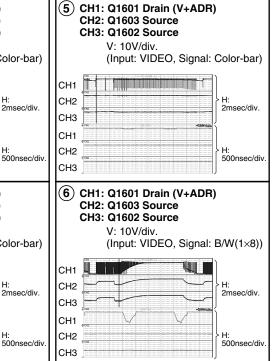




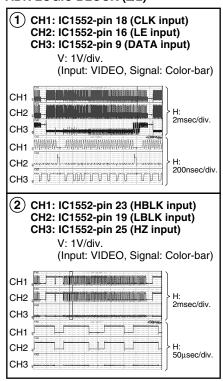
CH2

СНЗ

CH4



43 ADDRESS ASSY (3/3) ADR LOGIC BLOCK (2/2)



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NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

• The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

• When ordering resistors, first convert resistance values into code form as shown in the following examples. Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

3

560Ω	-	$56 \times 10^{1} \rightarrow$	561	RD1/4PU561J
			473	
0.5Ω	\rightarrow	R50		RN2HR50K
1Ω	-	1R0		RS1P[1]R[0]K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k \Omega \rightarrow 562 \times 10^{1} \rightarrow 5621$ RN1/4PC 5 6 2 1 F

		$5.62k \Omega \rightarrow 3$	$62 \times 10^{1} \rightarrow 5621 \cdots$	RN1/4PC\5\ 6\ 2\ .	
В	Mark LIS	No. Description T OF ASSEMBLIES	Part No.	Mark No. Description 43 ADDRESS ASSY	Part No.
	NSP NSP	143 ADDRESS ASSY 243 ADDRESS ASSY	AWV2076 AWZ6862	[43 ADR LOGIC BLOCK] SEMICONDUCTORS IC1501	PEE001B
	NSP NSP		AWV2079 AWZ6873 AWZ6874 AWZ6875	COILS AND FILTERS L1504	QTL1013
	NSP NSP		AWZ6876	CAPACITORS C1501, C1502	ACH1357 CKSSYB102K50
С	NSP	1HD PANEL IF ASSY 2PANEL IF ASSY	AWV2073 AWZ6841	C1509, C1510 C1503-C1507, C1555, C1558, C1561	CKSSYF104Z16
		1DIGITAL VIDEO ASSY	AWV2074	C1564	CKSSYF104Z16
ı	NSP	1HD AUDIO ASSY 2HD AUDIO AMP ASSY 2HD SP TERMINAL ASSY	AWV2075 AWZ6863 AWZ6864	RESISTORS R1510, R1519, R1522 R1505-R1509, R1530, R1531 R1511-R1518, R1520, R1521, R1523	RAB4C470J RS1/16SS1000F RS1/16SS470J
	NSP	143 X DRIVE ASSY 2PANEL LED ASSY 2PANEL KEY ASSY 2KEY CONTROL ASSY	AWV2077 AWZ6842 AWZ6843 AWZ6844	R1524, R1536-R1539 Other Resistors	RS1/16SS470J RS1/16S###J
D		2PANEL IR ASSY 243 X DRIVE ASSY 2PANEL SENSOR ASSY	AWZ6845 AWZ6865 AWZ6872	CN1501 40P FFC CONNECTOR	AKM1215
		143 Y DRIVE ASSY	AWV2078	[43 ADR RESONANCE BLOCK] SEMICONDUCTORS	
	\triangle	1POWER SUPPLY UNIT	AXY1085	IC1601-IC1603 Q1604 Q1601 Q1602, Q1603 D1601	TND307TD 2SA1163 HAT1110R HAT3021R 1SS302
E				D1605-D1608 D1602-D1604	RF051UA1D UDZS15(B)
_				COILS AND FILTERS L1601, L1602	ATH1163
•				CAPACITORS C1605 (0.1U/100V) C1607, C1615 (0.1UF/100V) C1613 C1603 (47UF/16V) C1601, C1602 (56UF/80V)	ACG1098 ACG1121 ACH1357 ACH1391 ACH1405
F				C1609, C1614 C1604, C1608, C1612	CKSRYB104K25 CKSSYF104Z16
				RESISTORS R1620 R1602,R1608-R1611	ACN1174 RS1/16SS220J

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5	6			7		8	
Mark No. Description	Part No.	M	lark No.		<u>Description</u>	Part No.	
Other Resistors	RS1/16S###J			_			
43 SCAN A ASSY		<u> </u>	RESISTOR				
<u>SEMICONDUCTORS</u>			R3202, R32 R3235	210, K	3216, R3224, R3229	RAB4C221J RAB4C221J	Α
IC3001-IC3006	SN755866PZP		Other Resis	tors		RS1/16S###J	
CAPACITORS							
C3001, C3002, C3012, C3013	ACG1088	<u>C</u>	<u>OTHERS</u>				
(0.1U/250V)					NNECTOR NONPB 3214, K3216, K3218	AKP1261 AKX9002	
C3023, C3024, C3034, C3035	ACG1088		TEST PIN	-	5214, N3210, N3210	ARX9002	
(0.1U/250V) C3045, C3046, C3056, C3057	ACG1088		K3221 TES			AKX9002	
(0.1U/250V)	7.001000						
	0000011101100		Y CO	NINIE	ECTOR A ASS	2V	
C3005, C3008, C3016, C3019, C3026 C3029, C3037, C3040, C3048, C3051		т			o service part.	31	
C3060, C3063	CCSRCH101J50		riis asserribiy	nas n	o service part.		В
C3007, C3018, C3033, C3044, C3050	CCSRCH181J50						
C3062	CCSRCH181J50		X CO	NNE	ECTOR B ASS	SY	
C3006, C3011, C3017, C3022	CCSRCH331J50	Т	his assembly	has n	o service part.		
C3031, C3032, C3042, C3043, C3049							
C3055, C3061, C3066	CCSRCH331J50		DANE	:	ACCV		_
C3009, C3010, C3020, C3021, C3028	CCSRCH390J50				ASSY		
C3030, C3039, C3041, C3053, C3054	CCSRCH390J50		PANEL IF B SEMICONE				
C3064, C3065	CCSRCH390J50	<u> </u>	IC4002		iUno	BR24L02FJ-W	
C3003, C3014, C3025, C3036, C3047	CKSRYB105K6R3	/!	1C4002 Ŝ IC4003			NCP1117DT33	
C3058	CKSRYB105K6R3		IC4006			SN74AHC541PW	
			Q4007			DTA143EUA	С
RESISTORS	DAD40004 I		Q4004, Q40)08, Q	4009, Q4012	DTC143EUA	
R3003, R3011, R3017, R3025, R3030 R3036	RAB4C221J RAB4C221J		Q4014-Q40	17		DTC143EUA	
Other Resistors	RS1/16S###J				4010, Q4013	RN1901	
			Q4011			RN2901	
<u>OTHERS</u>			Q4001 D4006			SM6K2 1SS355	
CN3001 13P CONNECTOR NONPB	AKP1261		D4006			155333	
K3001, K3004, K3009, K3015, K3017 TEST PIN	AKX9002		D4001-D400	04, D4	1007	RB751V-40	
K3019, K3021 TEST PIN	AKX9002	4	Ĺ D4005			UDZS5R1(B)	
			COILS AND	D EII	TEDC		
42 CCAN B ACCV			F4002	O FIL	IENS	ATF1213	D
43 SCAN B ASSY			L4001			LCTAW221J3225	
SEMICONDUCTORS	ONZEE0CODZD						
IC3201-IC3206	SN755866PZP	<u>C</u>	CAPACITO				
CAPACITORS			C4009, C40 C4005, C40			CCSRCH471J50	
C3201, C3211, C3212, C3222, C3223	ACG1088		C4005, C40 C4019	OUG		CCSSCH100D50 CCSSCH101J50	I
(0.1U/250V)			C4011, C40)18, C	4021	CEAT101M10	-
C3233, C3234, C3244, C3245	ACG1088		C4003, C40			CEAT101M16	
(0.1U/250V) C3255, C3256, C3266	ACG1088		C4004 C40	110 0	4012 C4014	CKCDAD100RE0	
(0.1U/250V)			C4004, C40 C4016, C40		4012, C4014 4041	CKSRYB103K50 CKSSYF104Z16	
00000 00001 00011 00011	00000111011==		2 . 3 . 3, 3 10	, •			Е
C3203, C3204, C3214, C3215, C3226		<u> </u>	RESISTOR	S			L
C3228, C3237, C3239, C3247, C3251 C3258, C3259	CCSRCH101J50 CCSRCH101J50		R4006			RAB4C101J	
C3206, C3217, C3232, C3243, C3249			R4001 Other Resis	toro		RS1/16S331J RS1/16SS###J	
C3261	CCSRCH181J50		Outer nests	1015		1/ IUOO###J	
C3205, C3210, C3216, C3221	CCSRCH331J50	<u>C</u>	<u>OTHERS</u>				_
C3230, C3231, C3241, C3242, C3248			CN4004 114		CONNECTOR	AKM1216	
C3254, C3260, C3265	CCSRCH331J50		CN4003 DV		` '	AKP1216	
C3208, C3209, C3219, C3220, C3227			CN4002 SC CN4001 PL		'	AKP1226 KM200NA8	
C3229, C3238, C3240, C3252, C3253	CCSRCH390J50		CN4001 PL		,	KM200NA9	
C3263, C3264	CCSRCH390J50			`	,		
C3202, C3213, C3224, C3235, C3246	CKSRYB105K6R3		CN4001 PL	UG (1	3P)	KM200NA13	F
C3257	CKSRYB105K6R3						
		DDD 11	DE				39
		PDP-435	YPE .				

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	Mark No. Description	Part No.	Mark No. Description	Part No.
	[TMDS RX BLOCK]	1 4111101	C5206, C5223, C5231, C5245-C5252	CKSSYB102K50
	SEMICONDUCTORS		C5257- C5260	CKSSYB102K50
	IC4206	BA8274F	C5202-C5204, C5207, C5208	CKSSYF104Z16
Α	IC4205	PST3628UR	C5210-C5212, C5218, C5224	CKSSYF104Z16
	IC4202	SII169CTG100	05000 05007 05040 05044	01/00\/5404740
	Q4215	SM6K2	C5226, C5227, C5243, C5244	CKSSYF104Z16
	D4203, D4204	1SS355		
	D4202	UDZS6R8(B)	RESISTORS	
	5-12-02	0D200110(D)	R5209, R5211, R5212, R5235	RAB4C101J
	COILS AND FILTERS		R5254, R5255, R5265, R5266	RAB4C101J
	 L4201	ATH1162	R5205	RAB4C103J
			R5270, R5271	RAB4C472J
	<u>CAPACITORS</u>		R5256, R5257	RAB4C474J
	C4208, C4215, C4218, C4222, C4230		R5294	RS1/16S0R0J
В	C4262	CCSRCH471J50	Other Resistors	RS1/16SS###J
	C4207, C4210, C4232, C4233, C4236	CCSSCH820J50 CCSSCH820J50		
	C4241, C4244, C4258 C4242, C4246	CEAT101M10	<u>OTHERS</u>	
	07272, 07270	OLAITOTWIO	CN5201 PLUG 8-P	AKM1225
	C4202, C4237, C4238	CEAT470M10	CN5202 CONNECTOR	AKM1274
	C4260	CKSRYB472K50	⚠ X5201 CERAMIC RESONATOR	ASS1178
	C4203, C4213, C4240, C4243, C4247			
	C4261, C4271	CKSSYF104Z16	IDANIEL EL ACILIDI COMI	
			[PANEL FLASH BLOCK]	
	<u>RESISTORS</u>		<u>SEMICONDUCTORS</u>	MDMOODL (OODD TEDETM
	R4241	RAB4C220J	IC5305	MBM29PL160BD-75PFTN
_	R4213-R4218, R4245, R4247	RAB4C470J	IC5303 IC5301	PST3612UR PST3628UR
С	R4253-R4255, R4257 R4250	RAB4C470J RS1/16S3900F	IC5302	SN74AHC08PW
	R4222- R4225	RS1/16S0R0J	Q5301	RN1901
	THELL THELO	1101/10001100		
	Other Resistors	RS1/16SS###J	D5301-D5310	DA204U
_			<u>CAPACITORS</u>	
			C5320	CCSRCH470J50
	DIGITAL VIDEO ASSY		C5321, C5322	CCSRCH471J50
	[DIGITAL IF BLOCK]		C5311, C5314	CKSRYB104K16
	RESISTORS		C5303, C5306	CKSRYB472K50
	R5101-R5115, R5131	RAB4C470J	C5304, C5307	CKSSYB102K50
_	Other Resistors	RS1/16SS###J	05004 05000 05005 05000 05040	01/00//5404740
D		1101/1000###0	C5301, C5302, C5305, C5309, C5313 C5316	CKSSYF104Z16 CKSSYF104Z16
	OTHERS		C5516	CK551F104Z16
	CN5001 114P FFC CONNECTOR	AKM1216	RESISTORS	
			R5317, R5318	RAB4C101J
			Other Resistors	RS1/16SS###J
	[MODULE UCOM BLOCK]			
	<u>SEMICONDUCTORS</u>		<u>OTHERS</u>	
	IC5206	BR24L04FJ-W	CN5301 PLUG 15-P	AKM1232
	IC5201	M30622F8PGP	⚠ X5302 CRYSTAL OSCILLATOR	ASS1174
	IC5205 IC5208	PST3628UR	⚠ X5301 CRYSTAL OSCILLATOR	ASS1182
	IC5208 IC5214, IC5215	SN74AHC08PW SN74AHC32PW		
Ε	130217, 100210	SAT TALIOOLI VV	[IC4 BLOCK]	
	IC5211, IC5212	SN74AHC541PW	SEMICONDUCTORS	
	IC5209	TC7W126FU	IC5401	DECOE 4A
	Q5201	2SJ461A	D5401	PEG054A SML-310LT
	Q5202	DTC143EUA	D5401 D5402	SML-310MT
_	D5217	1SS355	20102	SINE STOWN
	D5207-D5212	DAN202U	COILS AND FILTERS	
	D5207-D5212 D5201	SML-310LT	F5401, F5403, F5409, F5410	ATF1213
	50201	SME OTOLI		
	SWITCHES AND RELAYS		<u>CAPACITORS</u>	
	S5201	ASH1047	C5401, C5413, C5417, C5424	ACH1396
F			(100UF/6.3V)	01/00//0:
•	<u>CAPACITORS</u>		C5434, C5435	CKSSYB102K50
	C5213, C5225	ACH1357	C5402-C5412, C5414-C5416	CKSSYF104Z16
	C5205	CKSRYB472K50	C5418-C5423, C5425-C5431	CKSSYF104Z16
	40	DDD	425DE	
		2	-435PE	4
	1 =	۷	3	4 ■

ark No.	Description	Part No.	Mark No.	Description	Part No.	
ESISTORS	•		C3509		CEHAT331M16	
		D.D.O.O.	C3509		CEHAT471M25	
R5406, R542		RAB4C101J	C3571		CEHAT471M25 CEHAT472M25	
	, R5415, R5416, R5419	RAB4C220J	C3563			
R5422		RAB4C220J	C3563		CEHATR47M50	
R5405		RS1/16S5601F	00-10 00-00			
R5401-R5404		RS1/16S0R0J	C3512, C3522,		CFTLA103J50	
			-	C3518, C3533, C3534	CFTLA104J50	
Other Resisto	rs	RS1/16SS###J	C3545-C3548, (C3573-C3576	CFTLA104J50	
ADDRESS C	N BLOCK1		C3521		CFTLA333J50	
ESISTORS	•		C3524		CFTLA334J50	
		DC4/4000###1				
Other Resisto	rs	RS1/16SS###J	C3523		CFTLA474J50	
			C3506, C3508.	C3510, C3527, C3535		
THERS			C3550, C3558	,	CKSRYB103K50	
CN5521 50P	CONNECTER	AKM1201	C3543, C3544		CQMA222J50	
CN5501-CN5	508 40P CONNECTOR	AKM1217	000-10, 000-1-1		OQIVIAZZZOSO	
CN5511 30P	FFC CONNECTOR	AKM1218	PECICTORS			
			<u>RESISTORS</u>			
			R3599-R3602		RD1/2MMF2R2J	
IGITAL DD	CON BLOCK]		Other Resistors		RS1/16S###J	
<u>EMICONDL</u>	JUTURS		OTHERS			
IC5605		BA90BC0FP	3511 AUDIO HI	FATSINK	ANH1612	
IC5604		MM1665AT	CN3504 CONN		B3P-VH	
Q5601		HN1C01FU				
D5602, D5609	9	DAN202U	CN3502, CN350	` '	KM200NA6	
D5601		HZU2R2(B)	3512-3515 SCF		VBB30P100FNI	
		(- /	KN3501, KN350		VNF1084	
D5604		UDZS5R1(B)	WRAPPING	TERMINAL		
2000-		35233111(D)				
A DACITOR	e		HD SP T	ERMINAL AS	SY	
APACITOR			COILS AND F	_		
	3, C5614, C5616	ACH1394		<u>ililnə</u>	ATE4000	
(100UF/16V)			∆ L3701, L3702		ATF1206	
C5602, C5604	1, C5615, C5617	CKSRYB103K50				
C5605, C5606	3	CKSSYF104Z16	<u>CAPACITORS</u>			
			⚠ C3701-C3704		CCSRCH101J50	
ESISTORS			C3713-C3716		CCSRCH221J50	
R5613		RS1/16S0R0J	C3709, C3710		CKSRYB332K50	
	ro		C3711, C3712		CKSRYF473Z50	
Other Resisto	15	RS1/16SS###J	30711, 00712		31(3)(11) 4/0200	
THESE			RESISTORS			
THERS					DD4/05454E : 55 :	
CN5602 7P C		AKM1278	R3701-R3704		RD1/2MMF100J	
CN5601 11P		AKM1282				
U5602 DD C	ON UNIT	AXY1086	<u>OTHERS</u>			
			J3701 6P HOUS	SING WIRE	ADX3041	
HD VII	DIO AMP ASSY			KER TERMINAL	AKE1060	
			∴3701 SPEAKER		ANK1710	
<u>EMICONDL</u>	<u>JCTORS</u>		∴3702 SPEAKER		ANK1710 ANK1711	
IC3502		BD3869AS	COTOZ SFLANE	, OI IILLU D	ANNIXI / TT	
IC3504		LA4625				
IC3501		NJM2195L				
IC3503		NJM7809FA		N/E 40017		
	2, Q3507, Q3510, Q3511		43 X DR	IVE ASSY		
Q0001, Q000	_, &0007, &0010, &0011	20/11/02	OTHERS			
Q3503, Q3504	1 03508	2SC2712	1001 PLATE X		ANG2664	
•	+, 40000					
Q3512		DTC124EK	1002 SCREW		PMB30P060FNI	
D3501-D3504	•	1SS355		001/1		
			[43 X LOGICBL	-		
<u>APACITOR</u>	<u>S</u>		<u>SEMICONDUC</u>	CTORS		
C3525		CCSRCH221J50	IC1002	=	TC74ACT540FT	
	, C3520, C3528-C3532	CEAT100M50	IC1001		TC74ACT541FT	
	6, C3549, C3557, C3564		IC1001		TC74VHC08FT	
C3519	,,,	CEAT1R0M50	10 1000			
C3536		CEAT220M50				
30000		OLI (I LEUIVIOU	CAPACITORS		0=114=1=1	
C0E07 C0E0		CEATODOMEO	C1001		CEHAT470M25	
C3537, C3538		CEAT2R2M50	C1002-C1004		CKSSYB104K10	
C3551, C3552	2	CEAT330M25				
C3566		CEHAT101M10	RESISTORS			
C3561		CEHAT101M16	R1001, R1002,	B1005	RAB4C470J	
C3562, C3565	5	CEHAT220M50	R1003, R1004,		RAB4C470J	
			Other Resistors	111007		
		CEHAT2R2M50	Other Resistors		RS1/16S###J	
C3559, C3560)	CERAI ZRZIVIOU				
C3559, C3560)	CERAI ZRZIVISU				
C3559, C3560	J	GENAI 2N2IVIOU	PDP-435PE			41

	Mark No.	Description	Part No.		Mark No.	Description	Part No.
	OTHERS CN1001 30P F	FFC CONNECTOR	AKM1218		Q1209 Q1203		2SA1727 2SD1898
Α					Q1205		2SK2865
	[43 X RESONA	NCE BLOCK]			Q1208		DTC124EUA
	SEMICONDU				Q1201		HN1B04FU
	IC1103		BA10393F		D1212		1SS302
	IC1101, IC1102	2	TND506MD		D1212 D1211, D1213		1SS355
	Q1113	0444 04440	2SC4116		D1204, D1217		D1FL40
	Q1102, Q1103, Q1105	, Q1111, Q1112	2SK3555-01MR 2SK3592-01S		D1201, D1207		EC10QS04
	Q1103		2010002 010		D1208		UDZS5R6(B)
	Q1108, Q1109		2SK3864		COILS AND F	III TEDO	
		, Q1107, Q1110	QSZ2		L1204, L1205	ILILIIO	ATH1112
	D1109, D1122 D1112, D1119,	D1135 D1136	1SS302 1SS355		L1202, L1207		LFEA100J
В	D1101, D1102,		D1FL40		L1203, L1206		LFEA470J
					CARACITOR		
		D1111, D1114-D1117	D1FL40		CAPACITORS C1214-C1216,		ACE1163
	D1120, D1121, D1103, D1113,		D1FL40 RF2001T3D		C1214-C1210,	01220-01230	ACE1173
	D1129, D1130	D1110, D1125	RF2001T3D		C1209 (0.1U/6	30V)	ACG1092
	D1110, D1123		UDZS16(B)		C1219, C1231		ACH1414
					C1246		CEHAT221M25
	COILS AND F	<u>-ILIERS</u>	ATH1119		C1201, C1203	C1207, C1220	CEHAT470M25
	L1104 L1102		ATH1113		C1223, C1224	C1238, C1239, C1248	CEHAT470M25
	L1103, L1105		ATH1134			C1225, C1240, C1241	
С	L1101		LFEA470J		C1243	C1206, C1247	CKSRYB104K16 CKSRYF104Z50
	CADACITODO				C1202, C1205	C1200, C1247	CNSN1F104250
	CAPACITORS	2 C1125, C1126, C1127	ΔCF1168		RESISTORS		
	(100P/630V)	01125, 01120, 01127	ACETTOO		R1260, R1261		ACN1162
	C1111, C1124,	C1134, C1135	ACG1104		R1230		ACN1166
ı	(0.22UF/250V		1004440		R1208 R1255		ACN1174 ACN1178
	C1109, C1119 C1101, C1105,	(0.22UF/250V)	ACG1112 CCSRCH331J50		R1256		ACN1198
	C1102, C1118	01110, 01117	CKSRYB105K6R3				
					R1226, R1251		RS1MMF361J
	C1128, C1130-		CKSSYB104K10		R1235, R1236 Other Resistors		RS2MMF121J RS1/16S###J
D	C1104, C1108,	C1115, C1122	CKSYB105K25				
	RESISTORS				<u>OTHERS</u>		
	R1116, R1122		RS1/10S1003F		KN1201-KN12 GROUND P	*	ANK-142
	R1133, R1143- R1155, R1156	·R1145	RS1/10S100J RS1/10S220J			12 GROUND PLATE	ANK-142
	·	R1118, R1119, R1123	RS1/10S2R2J		KN1214 GRO		ANK-142
	R1126, R1153		RS1/10S2R2J		CN1201 CON	NECTOR	B12B-EH
	B		50.//.00005				
	R1136 R1139		RS1/16S1002F RS1/16S4701F		[43 X D-D CON	I BLOCK]	
	R1130, R1134		RS1/16S8201F		SEMICONDU		
	R1113, R1128		RS1MMF101J		IC1402		MIP2E3DMU
Ε	R1147, R1148		RS2MMF5R6J		IC1401, IC140	3	PS2701A-1(L)
	VR1101-VR110	14	CCP1390		IC1404 Q1401		TA76431FR 2SA1576A
	Other Resistors		RS1/16S###J		Q1402		2SC4116
					D4400 D4400	D4440	D451/70
	OTHERS	IF ATOINII	ANII 14 000		D1406, D1409, D1407, D1408	D1410	D1FK70 D1FL20U(S)
	1101 DRIVE H 1101 SCREW		ANH1628 PMH30P080FTC		D1407, D1400		U1ZB330
	TIOT GOTILW		1 WII 1001 0001 10		D1401, D1403		UDZS5R6(B)
		010				II TEDO	
	[43 X SUS BLO				COILS AND F	ILI EKS	ATK1153
	SEMICONDU IC1203, IC1207		STK795-510		L1401		LFEA101J
F	IC1203, IC1207		HCPL-M611				
	IC1205		NJM2872F05		CAPACITORS		
	IC1206		TND301S		C1401, C1402		ACH1361
	IC1204, IC1209	9	TND307TD		C1404		CEHAT101M16
	42			DP-435PE			
	1	-	2		3	-	4

Mark No. Description Description Description Part No. CH4710MM25 CH47331MM5 CH47831MM5 CH47		5	6	7	8	
C1496	<u>Mark No.</u>	<u>Description</u>	Part No.	Mark No. Description	Part No.	
C1496				PANEL IR ASSY		
C1466		07 01400 01411		SEMICONDUCTORS		
CRAINTORS CAPACITORS CAPA	C1403, C140	07, 01408, 01411	CKSHYB104K16	Q4901	2SC4116	
CEWATOMBER CA901 CEWATOMBER CA902 CKSPYB103K50 CA902 CKSPYB103K50 CA902 CKSPYB103K50 CA902 CKSPYB103K50 CA902 CKSPYB103K50 CA903 CKSPYB103K50 CA904 C	C1406		CKSRYF104Z50	D4902	DA204U	
Part	DE010T0D	•		CAPACITORS		
CASPATION CASP					CEVW470M6B3	
MAGDI	-	06, R1408-R1410, R1414				
PAINEL LED ASSY SMIL-31011 PAISTINGS PAINEL LED ASSY SMIL-31011 PAISTINGS PAINEL LED ASSY SMIL-31011 PAISTINGS PAINEL LED ASSY SMIL-31011 PAINEL RESIDENCE PAI						
RESISTORS RESI						
OPTION	•	04		0.00.	0.1001. 10.2.0	
Other Resistors RS1/16S###J Other Resistors RS1/16S###J OTHERS Chapters Chapters Chapters RS1/16S###J OTHERS Chapters Chapters Chapters Chapters Chapters 1001 ANH1062 Chapters Chapters Chapters Chapters Chapters Chapters MM1522VU 1001 SCREW PANEL SENSOR ASSY SEMICONDUCTORS IC1072 MM1522VU 1007 D4752 SML-310MT CAPACITORS CC1072, C1074, C1075 CKSRYB103K50 201LS AND FILTERS SML-311UT C1071, C1074, C1075 CKSRYB103K50 C1072, C1073 CKSRYB103K50 201LS AND FILTERS R4751-F4753 OTLIO11 RESISTORS R51/16SS##J 201LS AND FILTERS KM200NA3 THERS CN1971 PLUG (3P) KM200NA3 201LERS CN4751 PLUG (3P) KM200NA3 OTHERS CN1971 PLUG (3P) KM200NA3 201LEAND FILTERS CN1971 PLUG (3P) KM200NA3 OTHERS AC1971 PLUG (3P) KM200NA3 201LEAND FILTERS <td></td> <td></td> <td></td> <td>RESISTORS</td> <td></td> <td></td>				RESISTORS		
OTHERS				· · · · · · · · · · · · · · · · · · ·	DS1/16SS### I	
CM9901 L-PLUG (3P)	Other Resist	ors	HS1/16S###J		1101/1000###0	
May	THERE				KMOOONASI	
Name			ANII 14040			
PANEL SENSOR ASSY SEMICONDUCTORS C1072 MM1522XU MM1522XU MM1502XV SEMICONDUCTORS C1071 MM3012XN MM301				04901 IN ONIT	NF W/ 240-115	
PANEL LED ASSY C1072						
SEMICONDUCTORS	1001 SCRE	=VV	PMH30P080FTC	DANEL CENCOD ACC	V	
C1072					T	
PANEL LED ASSY				<u>SEMICONDUCTORS</u>		
Semiconductors	DANIE	L LED ACCV				
DAT51 DAT52 SML-310MT CLOPA_CITORS SML-311UT C1074, C1074, C1075 CKSRYB103K50 CKSRYF105Z10 C				IC1071	MM3012XN	
DA752	SEMICOND	<u>UCTORS</u>				
COLLS AND FILTERS F4751-F4753 QTL 1011 RESISTORS F4751-F4753 QTL 1011 RESISTORS CN4751 PLUG (3P) KM200NA3 OTHERS CN4751 PLUG (3P) KM200NA3 OTHERS CN4751 PLUG (3P) KM200NA3 OTHERS CN1071 PLUG (3P) KM200NA3 OTHERS CN1071 PLUG (3P) KM200NA3 PANEL KEY ASSY SWITCHES AND RELAYS SA901-S4000 VSG11024 OTHERS CN4001 6P FFC CONNECTOR AKM1208 CN4001 6P FFC CONNECTOR AKM1208 KEY CONTROL ASSY SEMICONDUCTORS LC4851 PA851-P4856 DA204U [43 Y LOGIC BLOCK] SEMICONDUCTORS COLLS AND FILTERS F4851-F4856 QTL 1011 C2002 TC74ACT541FT CA95C-C4854 CEAT470M50 C2004 C2005 (C2006 TC74AVC058FT) CA95C-C4854 CEAT470M50 C2005 (C2006 TC74AVC058FT) CA95C-C4854 CEAT470M50 C2005 (C2006 C2006) CXSYPB104K10 CA95C-C4854 CEAT470M50 C2005 (C2006 CXC174AVC058FT) CA95C-C4856 CECSCH101J50 CA95C-C4858 CESTATOMS0 CA95C-C4858 CECSCH101J50 CA95C-C4856 CECAT470M50 C2007 CKSRYB104K10 CA95C-C4856 CECAT470M50 C2007 CKSRYB104K10 C4851 RAB63 RS1/16S101J RESISTORS R4861-R4863 RS1/16S101J R2015 RAB4C100J R4861-R4863 RS1/16S101J R2015 RAB4C100J R4851 GP FFC CONNECTOR AKM1272 R2015, R2016, R2017, R2016,	D4751		SML-310MT	<u>CAPACITORS</u>		
Part	D4752		SML-311UT		CKSRYB103K50	
PATS1- F4753 QTL1011 RESISTORS R1073, R1074 QTHERS R1073, R1074 QTHER RESISTORS R1073, R1074 QTHER RESISTORS R1074 QTHER RESISTORS R17/6SS###, S17/6SS###, S17/6SS				C1072, C1073	CKSRYF105Z10	
R1073, R1074	COILS AND) FILTERS				
Other Resistors	F4751- F475	53	QTL1011	<u>RESISTORS</u>		
CN4751 PLUG (3P) KM200NA3 CN1071 PLUG (3P) KM200NA3				R1073, R1074	RS1/16S1001F	
CN4751 PLUG (3P) KM200NA3	OTHERS			Other Resistors	RS1/16SS###J	
PANEL KEY ASSY SWITCHES AND RELAYS \$43 Y DRIVE ASSY \$4801-\$4806 VSG1024 OTHERS CN4801 6P FFC CONNECTOR AKM1208 2001 PLATEY ANG2557 2001 SCREW PMH30P080FTC 2002 SCREW PMB30P060FNI 2001 DRIVE HEATSINK A ANH1613 KEY CONTROL ASSY SEMICONDUCTORS IC4851 PD5719A D4851-074853, D4855, D4856 DA204U [43 Y LOGIC BLOCK] SEMICONDUCTORS F4851-F4856 QTL1011 [22001, IC2003 TC74ACT541FT 1C2005, IC2006 TC74VHC08FT 1C2005, IC2006 TC74VHC08FT 1C2007 CKSRYB103K50 C4856-C4858 CCSSCH101J50 C4854 CEAT470M50 C4853 CKSRYB103K50 C4856 C4858 RAB4C182J R3681-R4863 RS1/16SS##J R4861-R4863 RS1/16SS##J R4861-R4863 RS1/16SS##J R2045 RAB4C100J DTHERS CN4851 6P FFC CONNECTOR AKM1272 CN4851 CEPALOCK ASS1162 CN4851 6P FFC CONNECTOR AKM1272 CN4851 CEPALOCK ASS1162 CN4851 CEPALOCK ASS1162 R2005, R2006, R2012, R2016, R2017 RAB4C472J R4851 CERALOCK ASS1162 R2005, R2006, R2012, R2016, R2017 RAB4C472J		_UG (3P)	KM200NA3			
### PANEL KEY ASSY ###################################		(- ,		OTHERS		
## PANEL KEY ASSY SWITCHES AND RELAYS SWITCHES AND RELAYS				CN1071 PLUG (3P)	KM200NA3	
CAMBO1 6P FFC CONNECTOR AKM1208 2001 PLATEY 2001 SCREW PMH30P080FTC 2002 SCREW 2001 DRIVE HEATSINK A 2001 DRIVE SIRICON SHEET 2000 DRIV	SWITCHES	AND RELAYS	VSG1024			
CN4801 6P FFC CONNECTOR	OTHERS			2002 CARD SPACER	AEC1957	
2001 SCREW		FFC CONNECTOR	AKM1208	2001 PLATEY	ANG2557	
CABSE CABS				2001 SCREW	PMH30P080FTC	
CABST PD5719A PD5719A PD5719A PD5719A PD5719A PA851 - PA856 PA856 PA856 - PA856 PA856 - PA				2002 SCREW	PMB30P060FNI	
C4851				2001 DRIVE HEATSINK A	ANH1613	
C4851	KFY (CONTROL ASSY				
C4851	_			2001 DRIVE SIRICON SHEET	AEH1062	
DASST-D4853, D4855, D4856 DA204U SEMICONDUCTORS SEMICONDUCTORS		<u>iocions</u>	DDE710A			
EDILS AND FILTERS F4851- F4856 QTL1011 CAPACITORS C4856-C4858 C4854 C4853 CKSRYB103K50 C4858 CKSRYB103K50 C4858 R4861- R4863 QTL101J R4858 RAB4C182J R4861- R4863 QTL101J R585 C4854 CHAPACITORS R51/16S101J R6858 R51/16SS###J R51/16SS###J R2045 R2055 R205 R205 R201 R2055 R2015 R2055 R2015 R2016 R2017 R2016 R2017 R2018 R2017 R2018 R2019 R2018 R2018 R2019 R2018 R2019 R2018 R2017 R2016 R2017 R2		D D 40EE D 40EC				
COULS AND FILTERS IC2002 TC74ACT540FT F4851-F4856 QTL1011 IC2001, IC2003 TC74ACT541FT IC2005, IC2006 TC74VHC08FT IC2004 TC74VHC541FT IC2005, IC2006 TC74VHC541FT IC2004 TC74VHC541FT IC2005, IC2006 TC74VHC541FT IC2005, IC2006 TC74VHC541FT IC2004 TC74VHC541FT IC2005, IC2006 TC74VHC541FT IC2007 C748CT540FT IC2007 C748CT540FT IC2008 TC74ACT540FT IC2005, IC2006 TC74VHC08FT IC2007 C748CT541FT IC2007 C748CT541FT IC2008 TC74ACT540FT IC2005, IC2006 TC74VHC08FT IC2008 TC74VHC08FT IC2008 TC74VHC541FT IC2005, IC2006 TC74VHC08FT IC2007 C848CT611 IC2007 C848CT6001 IC2007 C848CT601 IC2008 TC74ACT540FT IC2008 TC74ACT540FT IC2008 TC74ACT540FT IC2006, IC2008 TC74VHC08FT IC2006, IC2006 TC74VHC08FT IC2006, IC2006 TC74VHC08FT IC2007 C848CT601 IC2006 TC74VHC08FT IC2006 TC74VHC08FT IC2006 TC74VHC08FT IC2006 TC74VHC08FT IC2007 C848CT601 IC2006 TC74VHC08FT IC2007 C848CT601 IC2006 TC74VHC08FT IC2006 TC74VHC08FT IC2006 TC74VHC08FT IC2006 TC74VHC08FT IC2007 TC74CT6T6 IC2007 TC74VHC08FT IC2007 TC74VHC08FT IC2007 TC74VHC08FT IC2007 TC74VHC08	D4031-D403	33, D4633, D4636	DA2040			
CAPACITORS CA	COIL & AND) EII TEDO		<u>SEMICONDUCTORS</u>		
CAPACITORS			OTI 1011			
CAPACITORS C4856-C4858 CCSSCH101J50 C4854 CEAT470M50 CKSRYB103K50 C2001 CEHAT470M16 C2007 CKSRYB471K50 C2002-C2006, C2008 CKSSYB104K10 R4858 R4861- R4863 Other Resistors RS1/16SS###J R2045 R2055 RAB4C10J R2055 RAB4C10J CN4851 6P FFC CONNECTOR CN4852 PLUG (4P) KM200NA4 ASS1162 R2005, R2006, R2012, R2016, R2017 RAB4C472J	F4651- F485	OO	QILIUII	•		
C4856-C4858		De		•		
C4854 CEAT470M50 CAPACITORS C4853 CKSRYB103K50 C2001 CEHAT470M16 C2007 CKSRYB471K50 C2002-C2006, C2008 CKSSYB104K10 R4858 RAB4C182J RS1/16S101J RESISTORS Other Resistors RS1/16SS###J RESISTORS RAB4C0R0J DTHERS R2045 RAB4C100J CN4851 6P FFC CONNECTOR AKM1272 R2018, R2019 RAB4C102J CN4852 PLUG (4P) KM200NA4 R2002, R2004, R2013-R2015 RAB4C470J X4851 CERALOCK ASS1162 R2005, R2006, R2012, R2016, R2017 RAB4C472J			000001404150	IC2004	1C74VHC541FT	
CA853 CKSRYB103K50 CZ001 CEHAT470M16 C2007 CKSRYB471K50 C2002-C2006, C2008 CKSSYB104K10 R4858 RAB4C182J RESISTORS Other Resistors RS1/16S101J RESISTORS Other Resistors RS1/16SS###J R2045 RAB4C0R0J R2055 RAB4C100J R2025 RAB4C100J CN4851 6P FFC CONNECTOR AKM1272 R2018, R2019 RAB4C102J CN4852 PLUG (4P) KM200NA4 R2002, R2004, R2013-R2015 RAB4C470J X4851 CERALOCK ASS1162 R2005, R2006, R2012, R2016, R2017 RAB4C472J		00		CARACITORS		
RESISTORS R4858 R4861- R4863 Other Resistors R51/16SS###J R2045 R2055 R2025 RAB4C100J R2025 CN4851 6P FFC CONNECTOR CN4852 PLUG (4P) X4851 CERALOCK R4854 RAB4C162 R2005, R2006, R2012, R2016, R2017 RAB4C472J						
RESISTORS C2002-C2006, C2008 CKSSYB104K10 R4858 RAB4C182J R851/16S101J RESISTORS Nother Resistors RS1/16SS###J RESISTORS R2045 RAB4C0R0J R2055 RAB4C100J R2025 RAB4C101J CN4851 6P FFC CONNECTOR AKM1272 R2018, R2019 RAB4C102J CN4852 PLUG (4P) KM200NA4 R2002, R2004, R2013-R2015 RAB4C470J A4851 CERALOCK ASS1162	U4000		01/3011 0 1031/30			
R4858 RAB4C182J R4861- R4863 RS1/16S101J RESISTORS Other Resistors RS1/16SS###J R2045 RAB4C0R0J R2055 RAB4C100J R2025 RAB4C101J CN4851 6P FFC CONNECTOR AKM1272 R2018, R2019 RAB4C102J CN4852 PLUG (4P) KM200NA4 R2002, R2004, R2013-R2015 RAB4C470J X4851 CERALOCK ASS1162 R2005, R2006, R2012, R2016, R2017 RAB4C472J	DECICTOR	2				
R4861 - R4863 RS1/16S101J RESISTORS Other Resistors RS1/16SS###J R2045 RAB4C0R0J R2055 RAB4C100J R2025 RAB4C101J CN4851 6P FFC CONNECTOR AKM1272 R2018, R2019 RAB4C102J CN4852 PLUG (4P) KM200NA4 R2002, R2004, R2013-R2015 RAB4C470J X4851 CERALOCK ASS1162 R2005, R2006, R2012, R2016, R2017 RAB4C472J		<u>u</u>	DAD4C100 I	C2002-C2006, C2008	CKSSYB104K10	
Other Resistors RS1/16SS###J R2045 R2045 R2055 RAB4C0R0J R2055 RAB4C100J R2025 RAB4C101J R2025 RAB4C101J R2025 RAB4C101J R2018, R2019 R2018, R2019 RAB4C102J R2045 R205, R2004, R2013-R2015 RAB4C470J R2005, R2006, R2012, R2016, R2017 RAB4C472J		63		DECIOTORS		
DTHERS RAB4C100J R2055 RAB4C100J R2025 RAB4C101J R2025 RAB4C101J R2025 RAB4C101J R2018, R2019 R2018, R2019 RAB4C102J R2004, R2013-R2015 RAB4C470J R2005, R2006, R2012, R2016, R2017 RAB4C472J						
DTHERS R2025 RAB4C101J CN4851 6P FFC CONNECTOR AKM1272 R2018, R2019 RAB4C102J CN4852 PLUG (4P) KM200NA4 R2002, R2004, R2013-R2015 RAB4C470J ∴ X4851 CERALOCK ASS1162 R2005, R2006, R2012, R2016, R2017 RAB4C472J	Other Resist	015	U9 1/ 1099###J			
CN4851 6P FFC CONNECTOR AKM1272 R2018, R2019 RAB4C102J CN4852 PLUG (4P) KM200NA4 R2002, R2004, R2013-R2015 RAB4C470J \[\text{N} \text{X4851 CERALOCK} ASS1162 \] R2005, R2006, R2012, R2016, R2017 RAB4C472J	THERE					
CN4852 PLUG (4P) KM200NA4 R2002, R2004, R2013-R2015 RAB4C470J \(\text{X4851 CERALOCK} \) ASS1162 R2005, R2006, R2012, R2016, R2017 RAB4C472J		FEO CONTRIBOTOR	A1/A44070			
⚠ X4851 CERALOCK ASS1162 R2005, R2006, R2012, R2016, R2017 RAB4C472J				·		
R2005, R2006, R2012, R2016, R2017 RAB4C472J		. ,		R2002, R2004, R2013-R2015	RAB4C470J	
	1∆X4851 CER	ALOCK	ASS1162	Door Bosse Bosse Francis	DAD40:==:	
Other Hesistors HS1/16S###J						
				Otner Hesistors	HS1/16S###J	
		-	6	PDP-435PE 7	0	

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Mark No. Description	Part No.	Mark No. Description	Part No.
•	<u> </u>	•	
<u>OTHERS</u>		R2240, R2241	RS1/10S1003F
CN2001 50P CONNECTOR	AKM1201	R2244-R2247	RS1/10S100J
		R2260, R2261	RS1/10S220J
		R2205, R2211, R2213, R2220, R2221	RS1/10S2R2J
[43 Y SCAN BLOCK]		R2253, R2265	RS1/10S2R2J
<u>SEMICONDUCTORS</u>		R2234	RS1/16S1002F
IC2101, IC2103-IC2106, IC2108, IC210	9HCPL-M611	R2235	RS1/16S4701F
IC2111, IC2112	PST3638UR	R2233, R2242	RS1/16S8201F
IC2102, IC2107	TC74ACT540FT		
		R2215, R2230	RS1MMF101J
COILS AND FILTERS		R2256, R2259	RS2MMF5R6J
L2101-L2103	LFEA100J		
L2101-L2103	LFEA1003	VR2201-VR2204	CCP1390
0.4.0.4.0.17.0.0.0		Other Resistors	RS1/16S###J
<u>CAPACITORS</u>			
C2104, C2111	ACH1406		
C2101, C2107, C2113	CEHAT221M16		
C2118, C2119	CKSRYB102K50	OTHERS	
C2116, C2117	CKSRYB471K50	2201 DRIVE HEATSINK	ANH1628
C2102, C2103, C2105, C2106	CKSSYB104K10		
02.02, 02.00, 02.00, 02.00		2201 SCREW	PMH30P080FTC
C2108-C2110, C2112, C2114	CKSSYB104K10		
02100 02110, 02112, 02114	OROG I BTO-ICTO		
DECICTORO		[43 Y SUS BLOCK]	
<u>RESISTORS</u>		SEMICONDUCTORS	
R2138, R2141	RAB4C0R0J	IC2303, IC2307	STK795-511
R2121, R2128	RAB4C472J	IC2302	HCPL-M611
Other Resistors	RS1/16S###J	IC2305	NJM2872F05
		IC2303	TC7SH04FU
<u>OTHERS</u>			
CN2101, CN2102 15P CONNECTOR	AKM1200	IC2301, IC2304	TND301S
CN2101, CN2102 13F CONNECTOR	ARWI1200		
		IC2311	TND307TD
140 V DECONANCE DI COM		Q2313	2SA1727
[43 Y RESONANCE BLOCK]		Q2310	2SC4081
<u>SEMICONDUCTORS</u>		Q2303	2SD1898
IC2211	BA10393F	Q2302	2SK3325-Z
IC2201, IC2202	TND506MD		
Q2213	2SC4081	Q2312	2SK3694-01S
Q2205, Q2206, Q2208, Q2209	2SK3555-01MR	Q2309	HN1B04FU
Q2212	2SK3592-01S	D2322	1SS302
QZZIZ	2310392-013	D2312, D2325, D2301, D2302	1SS355
00000 00000	001/0004	D2324	D1FL40
Q2202, Q2203	2SK3864 QSZ2	D2324	DTI L40
Q2201, Q2204, Q2207, Q2210		D2210	EC100004
D2209, D2223	1SS302	D2319	EC10QS04
D2228, D2229, D2232, D2233	1SS355	D2320	RF051UA1D
D2202-D2205, D2207, D2208	D1FL40	D2323	UDZS16(B)
		D2306	UDZS5R6(B)
D2212-D2214, D2216-D2219	D1FL40		
D2221, D2222	D1FL40	COILS AND FILTERS	
D2201, D2206, D2211, D2220, D2225	RF2001T3D	L2306, L2307	ATH1112
D2230	RF2001T3D	L2304, L2309	LFEA100J
D2210, D2224	UDZS16(B)	L2308	LFEA101J
•	` '	L2301, L2302, L2305	LFEA470J
COILS AND FILTERS		,,	
	ATU1110	CADACITODS	
L2202	ATH1119	CAPACITORS	
L2204	ATH1133	C2309-C2311, C2327, C2329, C2330	ACE1163
L2203, L2205	ATH1134	C2314	ACE1165
L2201	LFEA470J	C2346 (0.33U/100V)	ACG1118
		C2336	ACH1407
<u>CAPACITORS</u>		C2316, C2331	ACH1414
C2212- C2214, C2226, C2227	ACE1168		
C2211, C2224, C2238, C2240	ACG1104	C2303, C2342	ACH1416
(100P/630V)		C2343	CCSRCH102J50
C2210, C2223 (0.22UF/250V)	ACG1112	C2306	CEHAT221M25
C2202, C2205, C2216, C2217	CCSRCH331J50	C2308, C2324, C2339, C2340, C2349	
		C2304, C2324, C2339, C2340, C2349	CEHAT470M25
C2203, C2218	CKSRYB105K6R3	02004, 02020, 02000, 02040	OLI IAI 47 UIVIZO
00000 00000 00000 00000	OLYOOVER AS THE SE	C000E C0000 C0000 C000E C0011	OKODYD404K40
C2230, C2232, C2233, C2235	CKSSYB104K10	C2305, C2322, C2323, C2325, C2341	
C2201, C2208, C2215, C2219	CKSYB105K25	C2347	CKSRYB105K6R3
		C2301, C2307, C2344	CKSRYF104Z50
<u>RESISTORS</u>			
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Mark No.	Description	Part No.	<u> </u>	Mark No.		<u>Description</u>	Part No.	
RESISTORS R2364, R2365 R2332 R2367, R2379- R2368 R2309	R2386	ACN1162 ACN1166 RS1/10S0R0J RS1/10S151J RS1MMF132J		C2434-C24 C2415, C24	36, C2 121, C2		CKSRYB104l CKSRYB105l	K16 K6R3 Z50 A
R2310, R2311 R2312, R2313, R2348, R2352, Other Resistors	R2358, R2359	RS1MMF472J RS3LMF100J RS3LMF1R8J RS1/16S###J		RESISTOR R2429 R2435, R24 R2402-R24 R2442 R2468	139		ACN1225 RS1/10S2202 RS1/10S3902 RS1/16S1201 RS1/16S1202	2F IF
	5, KN2310, KN2312 16 GROUND PLATE IECTOR	ANK-142 ANK-142 B11B-EH		R2424, R24 R2420, R24 R2451 R2467 R2452, R24	138 153		RS1/16S2001 RS1/16S2201 RS1/16S2202 RS1/16S3301 RS1/16S3302	1F 2F 1F B 2F
,		BA10358F MIP2E3DMC PS2701A-1(L)		R2457-R24 R2506 VR2401, VF Other Resis	R2402		RS1/16S4701 RS3LMF151 CCP1390 RS1/16S###	I
IC2410-IC2412 Q2402, Q2407		TA76431FR 2SA1037K		OTHERS 2401 HEAT 2401 SCRE	_		ANH1614 BBZ30P080F	TC
Q2410 Q2417 Q2405 Q2411-Q2413, (Q2403	Q2416, Q2419	2SA1163 2SA2005 2SC2713 2SC4081 2SD1664		POWI This assembly		SUPPLY UNI	ΙΤ	С
Q2401, Q2404 Q2415 D2430 D2410, D2419, D2409, D2418	D2436	2SD1898 HN1C01FU 1SS301 1SS302 1SS355						
D2402 D2404-D2407 D2414 D2403 D2401		D1FK70 D1FL20U(S) D1FL40 EC8FS6 U1ZB330						D
D2412, D2413, D2437, D2438 D2432 D2423, D2431	D2422	UDZS15(B) UDZS33(B) UDZS4R3(B) UDZS5R6(B)						
COILS AND F ↑ T2402 ↑ T2403 ↑ T2401	<u>ILTERS</u>	ATK1156 ATK1157 ATK1158 LFEA100J						E
L2401		LFEA101J						_
L2403		LFEA470J						
CAPACITORS C2406 C2401 C2427 C2403 C2405, C2407,		ACH1360 ACH1361 CEHAT100M50 CEHAT101M16 CEHAT101M25						•
C2414 C2410 C2411 C2420 C2409, C2419		CEHAT221M16 CEHAT221M25 CEHAT331M25 CEHAT470M2A CKSRYB103K50						F
• 5	5 =	6	PDP-43	35PE	7	-	8	45 •

6. ADJUSTMENT



1. At shipment, the unit is adjusted to its best conditions. Normally, it is not necessary to readjust even if an assembly is replaced. If the adjustment is shifted or if it becomes necessary to readjust because of part replacement, etc., perform the adjustment as described below.

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2. Any value changed in Service/Factory mode will be stored in memory as soon as it is changed. Before readjustment, take note of the original values for reference in case you need to restore the original settings.

3. Use a stable AC power supply.

6.1 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED

■ When any of the following assemblies is replaced **POWER SUPPLY Unit** No adjustment required Writing of backup data is required. **DIGITAL VIDEO Assy** Refer to the "7.1.7 BACKUP WHEN THE MAIN UNIT IS ADJUSTED. " 43 X DRIVE Assy No adjustment required 43 Y DRIVE Assy No adjustment required Service Panel Refer to the "6.4 METHOD FOR REPLACING THE SERVICE PANEL ASSY. " Other assemblies No adjustment required ■ When any part in the following assemblies is replaced The assembly must be replaced as a unit, and no part **POWER SUPPLY Unit** replacement is allowed. D **DIGITAL VIDEO Assy** No adjustment required 43 X DRIVE Assy (IC1101, IC1102) Refer to the "6.2 DRIVE ASSY ADJUSTMENT." 43 Y DRIVE Assy (IC2201, IC2202) Refer to the "6.2 DRIVE ASSY ADJUSTMENT." Other assemblies No adjustment required Ε

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6.2 DRIVE ASSY ADJUSTMENT

■ How to readjust the timing of the control signals when the DRIVE Assy TND506MD is to be replaced

As there is a large difference in delay time among the individual TND506MDs, timing adjustment has been made on each TND506MD in the unit process. If the TND506MD is replaced on the X or Y Drive Assy, readjustment of the timing of the control signals is required.

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Assy	Replaced IC	Signal for which Readjustment is Required
X DRIVE	IC1101	XSUS-U2 & XSUS-D2
X DRIVE	IC1102	XSUS-U1 & XSUS-D1
Y DRIVE	IC2201	YSUS-U1 & YSUS-D1
TORIVE	IC2202	YSUS-U2 & YSUS-D2

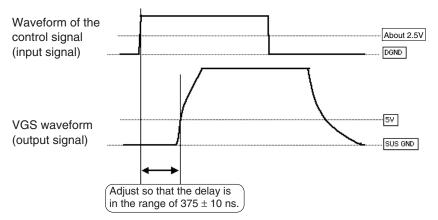
How to adjust

Adjust the timing between the startup of the control signals of SUS-U1, SUS-D1, SUS-U2, and SUS-D2 and the startup of the voltage between the gate and the source of the output FET, with the VR resistors that are inserted in the signal line in series. When adjusting, set the unit to Drive OFF mode, and Vsus to 0 V. (For details on how to set to Drive OFF mode, see "7.1.6 Power on/off function for the large-signal system".)

Specified values for adjustment and adjustment points

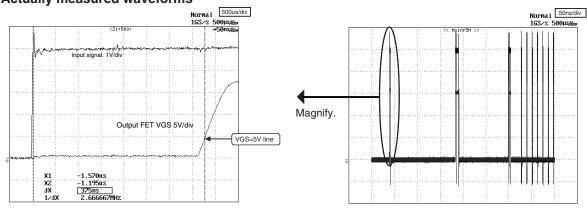
		X DRIVE Y DRIVE					
Signal Name	Set Value for Delay Time	Input Signal	Output Signal	Adjustment VR	Input Signal	Output Signal	Adjustment VR
SUS-U1	$375 \text{ns} \pm 10 \text{ns}$	K1005	Q1108	VR1103	K2025	Q2202	VR2201
SUS-D1	$375 \text{ns} \pm 10 \text{ns}$	K1009	Q1112	VR1104	K2027	Q2205	VR2202
SUS-U2	375ns ± 10ns	K1008	Q1103	VR1101	K2022	Q2208	VR2203
SUS-D2	375ns ± 10ns	K1006	Q1105	VR1102	K2024	Q2212	VR2204

Note: Connect GND of the probe with DGND (DGND: X Drive Assy: K1020, Y Drive Assy: K2010) for input signal. For outputting a signal, obtain a signal from the FET gate terminal. For adjustment, magnify any pulse in the waveform.



Actually measured waveforms

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6.3 COMMAND **6.3.1 RS232C COMMAND**

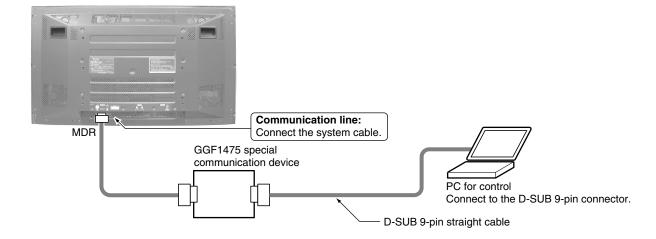
• The panel control items for the PDP-435P system can be controlled with the RS-232C commands by connecting a PC through the GGF1475 special communication device when the Media Receiver is not connected with the PDP.

Note: The special communication device for the PDP-503P cannot be used with this unit, because the control lines within the MDR cable are

different.

■ Connection

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• Schematic diagram of the special communication device

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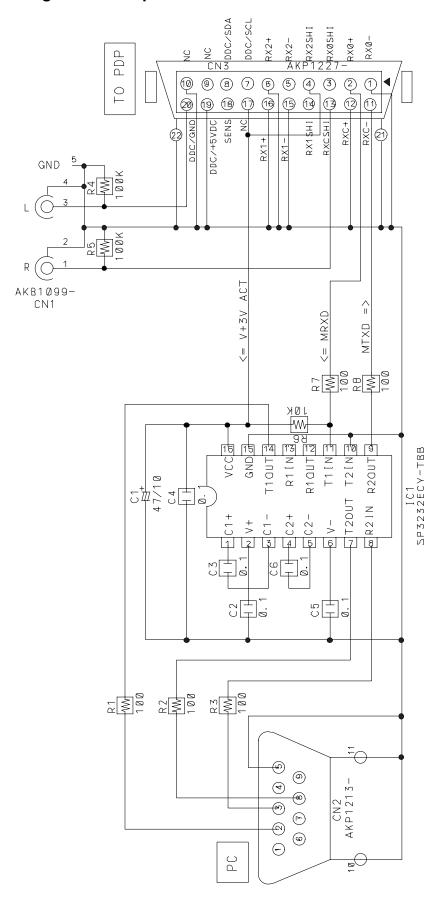
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• RS-232C Commands for the module microcomputer

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Command Name		Function	Validity of direct numeric Validity Lower limit Upp		
[A]					
ABL	ABL ADJUSTMENT	Adjusting the upper limit of the power	0	000	255
ABN	PEAK ABL NO	Peak ABL function OFF			
ABY	PEAK ABL YES	Peak ABL function ON			
AMN	AUDIO MUTE NO	Turning off the audio muting			
AMY	AUDIO MUTE YES	Turning on the audio muting			
	AODIO MOTE TEO	Turning on the addio mating			
B]	DALANIOE AD ILIOTATENIT	A discaling the condition of the lands	0	00	450
BAL	BALANCE ADJUSTMENT	Adjusting the audio balance	0	98	158
BAS	BASS ADJUSTMENT	Adjusting the audio bass	0	121	135
3CP	BACKUP COPY	Copying the backup data in the EEPROM			
[C]					
CHM	CLEAR HOUR METER	Clearing data of the hour meter			
CPD	CLEAR POWER DOWN	Clearing power-down information			
CPM	CLEAR PLUSE METER	Clearing data of the pulse meter			
CSD		Clearing shut down information			
	CLEAR SHUT DOWN	Cleaning Shut down information			
[D]					
DRF	DRIVE OFF	Driving off			
ORN	DRIVE ON	Driving on			
F]					
- 50	FREQENCY VIDEO 50Hz	Setting the frequency in Mask mode to 50 Hz (VIDEO)			
- 60	FREQENCY VIDEO 60Hz	Setting the frequency in Mask mode to 60 Hz (VIDEO)			
-61	FREQENCY PC 60Hz				
		Setting the frequency in Mask mode to 60 Hz (PC)			
- 70	FREQENCY PC 70Hz	Setting the frequency in Mask mode to 70 Hz (PC)			
-72	FREQENCY VIDEO 72Hz	Setting the frequency in Mask mode to 72 Hz (VIDEO)			
- 75	FREQENCY 75Hz	Setting the frequency in Mask mode to 75 Hz (VIDEO)			
-AJ	FINISH ADJUSTMENT	Determining the flag of the DIGITAL VIDEO Assy adjustment in "adjustment			
		is completed"			
-CN	FOCUS NO	Turning the FOCUS function off			
CY	FOCUS YES	Turning the FOCUS function on			
	10003123	Turning the 1 0003 function on			
[G]					
GAJ	GET ADJUSTMENT	Obtaining various adjustment values			
GNP	GET NUMBER PANEL	Obtaining the serial no. of the panel			
GPD	GET POWER-DOWN	Obtaining the power-down-point log			
GPW	GET PANEL WHITE BALANCE	Obtaining the panel white-balance adjustment values			
GS1	GET STATUS 1	Obtaining information on the unit, such as the software version			
GS2	GET STATUS 2	Obtaining information on the status of the unit, such as the temperature			
GSD	GET SHUT DOWN	Obtaining information on shutdown			
	GLI SHOT DOWN	Obtaining information on strateown			
M]	11101/11005	T			
M00	MASK MODE 0	Turning the Mask function off			
M01	MASK MODE 1	White raster (change in luminance level)			
M02	MASK MODE 2	White rasterzigzag, exact reversescangraywhite raster			
W03	MASK MODE 3	HLzigzag, exact reversescangraywhite raster			
M04	MASK MODE 4	White rasterzigzag, exact reversescangraywhite raster			
M10	MASK MODE 10	H ramp (slant 1)			
W11	MASK MODE 11	H ramp (slant 4)			
V112	MASK MODE 12	H ramp (slant 1 shifting)			
И13	MASK MODE 13	H ramp (slant 4 shifting)			
Л14	MASK MODE 14	V ramp (slant 1)			
	MASK MODE 15	Slanting ramp			
/115		Window (for WB adjustment, Hi = 870, Lo = 102)			
	MASK MODE 20				
Л 20		Window (for WB adjustment, Hi = 1023 to = 102)			
Л20 Л21	MASK MODE 21	Window (for WB adjustment, Hi = 1023, Lo = 102) Window (for measuring the peak luminance during WB adjustment, Hi = 1023)			
Л20 Л21 Л22	MASK MODE 21 MASK MODE 22	Window (for measuring the peak luminance during WB adjustment, Hi = 1023)			
И20 И21 И22 И23	MASK MODE 21 MASK MODE 22 MASK MODE 23	Window (for measuring the peak luminance during WB adjustment, Hi = 1023) Window (for measuring the peak luminance, Hi = 1023, 4%)			
M20 M21 M22 M23 M24	MASK MODE 21 MASK MODE 22 MASK MODE 23 MASK MODE 24	Window (for measuring the peak luminance during WB adjustment, Hi = 1023) Window (for measuring the peak luminance, Hi = 1023, 4%) Window (for measuring the peak luminance, Hi = 1023, 1.25%)			
M20 M21 M22 M23 M24 M25	MASK MODE 21 MASK MODE 22 MASK MODE 23 MASK MODE 24 MASK MODE 25	Window (for measuring the peak luminance during WB adjustment, Hi = 1023) Window (for measuring the peak luminance, Hi = 1023, 4%) Window (for measuring the peak luminance, Hi = 1023, 1.25%) Window (vertical line with 1/7-width for measuring the stress)			
M20 M21 M22 M23 M24 M25 M26	MASK MODE 21 MASK MODE 22 MASK MODE 23 MASK MODE 24 MASK MODE 25 MASK MODE 26	Window (for measuring the peak luminance during WB adjustment, Hi = 1023) Window (for measuring the peak luminance, Hi = 1023, 4%) Window (for measuring the peak luminance, Hi = 1023, 1.25%) Window (vertical line with 1/7-width for measuring the stress) Window (magenta, green, and stripe for check)			
M20 M21 M22 M23 M24 M25 M26	MASK MODE 21 MASK MODE 22 MASK MODE 23 MASK MODE 24 MASK MODE 25	Window (for measuring the peak luminance during WB adjustment, Hi = 1023) Window (for measuring the peak luminance, Hi = 1023, 4%) Window (for measuring the peak luminance, Hi = 1023, 1.25%) Window (vertical line with 1/7-width for measuring the stress)			
M20 M21 M22 M23 M24 M25 M26 M27	MASK MODE 21 MASK MODE 22 MASK MODE 23 MASK MODE 24 MASK MODE 25 MASK MODE 26	Window (for measuring the peak luminance during WB adjustment, Hi = 1023) Window (for measuring the peak luminance, Hi = 1023, 4%) Window (for measuring the peak luminance, Hi = 1023, 1.25%) Window (vertical line with 1/7-width for measuring the stress) Window (magenta, green, and stripe for check) Window (green,magenta, and stripe for check)			
M20 M21 M22 M23 M24 M25 M26 M27	MASK MODE 21 MASK MODE 22 MASK MODE 23 MASK MODE 24 MASK MODE 25 MASK MODE 26 MASK MODE 27 MASK MODE 28	Window (for measuring the peak luminance during WB adjustment, Hi = 1023) Window (for measuring the peak luminance, Hi = 1023, 4%) Window (for measuring the peak luminance, Hi = 1023, 1.25%) Window (vertical line with 1/7-width for measuring the stress) Window (magenta, green, and stripe for check) Window (green,magenta, and stripe for check) Window (black & white [1 x 8], checker, for EMG check)			
M15 M20 M21 M22 M23 M24 M25 M26 M27 M28 M29	MASK MODE 21 MASK MODE 22 MASK MODE 23 MASK MODE 24 MASK MODE 25 MASK MODE 26 MASK MODE 27 MASK MODE 28 MASK MODE 29	Window (for measuring the peak luminance during WB adjustment, Hi = 1023) Window (for measuring the peak luminance, Hi = 1023, 4%) Window (for measuring the peak luminance, Hi = 1023, 1.25%) Window (vertical line with 1/7-width for measuring the stress) Window (magenta, green, and stripe for check) Window (green,magenta, and stripe for check) Window (black & white [1 x 8], checker, for EMG check) Window (for WB adjustment, magenta = 512, yellow = 512)			
M20 M21 M22 M23 M24 M25 M26 M27 M28 M29 M2E	MASK MODE 21 MASK MODE 22 MASK MODE 23 MASK MODE 24 MASK MODE 25 MASK MODE 26 MASK MODE 27 MASK MODE 28 MASK MODE 29 MASK MODE 2E	Window (for measuring the peak luminance during WB adjustment, Hi = 1023) Window (for measuring the peak luminance, Hi = 1023, 4%) Window (for measuring the peak luminance, Hi = 1023, 1.25%) Window (vertical line with 1/7-width for measuring the stress) Window (magenta, green, and stripe for check) Window (green,magenta, and stripe for check) Window (black & white [1 x 8], checker, for EMG check) Window (for WB adjustment, magenta = 512, yellow = 512) Wiper for erasing afterimage			
M20 M21 M22 M23 M24 M25 M26 M27 M28 M29 M2E	MASK MODE 21 MASK MODE 22 MASK MODE 23 MASK MODE 24 MASK MODE 25 MASK MODE 26 MASK MODE 27 MASK MODE 28 MASK MODE 29 MASK MODE 29 MASK MODE 2E MASK MODE 2F	Window (for measuring the peak luminance during WB adjustment, Hi = 1023) Window (for measuring the peak luminance, Hi = 1023, 4%) Window (for measuring the peak luminance, Hi = 1023, 1.25%) Window (vertical line with 1/7-width for measuring the stress) Window (magenta, green, and stripe for check) Window (green,magenta, and stripe for check) Window (black & white [1 x 8], checker, for EMG check) Window (for WB adjustment, magenta = 512, yellow = 512) Wiper for erasing afterimage Mask for warning of cable disconnection			
M20 M21 M22 M23 M24 M25 M26 M27 M28 M29 M2E M2F M30	MASK MODE 21 MASK MODE 22 MASK MODE 23 MASK MODE 24 MASK MODE 25 MASK MODE 26 MASK MODE 27 MASK MODE 28 MASK MODE 29 MASK MODE 29 MASK MODE 2E MASK MODE 2F MASK MODE 30	Window (for measuring the peak luminance during WB adjustment, Hi = 1023) Window (for measuring the peak luminance, Hi = 1023, 4%) Window (for measuring the peak luminance, Hi = 1023, 1.25%) Window (vertical line with 1/7-width for measuring the stress) Window (magenta, green, and stripe for check) Window (green,magenta, and stripe for check) Window (black & white [1 x 8], checker, for EMG check) Window (for WB adjustment, magenta = 512, yellow = 512) Wiper for erasing afterimage Mask for warning of cable disconnection ColorBar			
M20 M21 M22 M23 M24 M25 M26 M27 M28 M29 M2E	MASK MODE 21 MASK MODE 22 MASK MODE 23 MASK MODE 24 MASK MODE 25 MASK MODE 26 MASK MODE 27 MASK MODE 28 MASK MODE 29 MASK MODE 29 MASK MODE 2E MASK MODE 2F	Window (for measuring the peak luminance during WB adjustment, Hi = 1023) Window (for measuring the peak luminance, Hi = 1023, 4%) Window (for measuring the peak luminance, Hi = 1023, 1.25%) Window (vertical line with 1/7-width for measuring the stress) Window (magenta, green, and stripe for check) Window (green,magenta, and stripe for check) Window (black & white [1 x 8], checker, for EMG check) Window (for WB adjustment, magenta = 512, yellow = 512) Wiper for erasing afterimage Mask for warning of cable disconnection			
M20 M21 M22 M23 M24 M25 M26 M27 M28 M29 M2E M2F M30	MASK MODE 21 MASK MODE 22 MASK MODE 23 MASK MODE 24 MASK MODE 25 MASK MODE 26 MASK MODE 27 MASK MODE 28 MASK MODE 29 MASK MODE 29 MASK MODE 2E MASK MODE 2F MASK MODE 30	Window (for measuring the peak luminance during WB adjustment, Hi = 1023) Window (for measuring the peak luminance, Hi = 1023, 4%) Window (for measuring the peak luminance, Hi = 1023, 1.25%) Window (vertical line with 1/7-width for measuring the stress) Window (magenta, green, and stripe for check) Window (green,magenta, and stripe for check) Window (black & white [1 x 8], checker, for EMG check) Window (for WB adjustment, magenta = 512, yellow = 512) Wiper for erasing afterimage Mask for warning of cable disconnection ColorBar			
M20 M21 M22 M23 M24 M25 M26 M27 M28 M29 M2E M2F M30 M31	MASK MODE 21 MASK MODE 22 MASK MODE 23 MASK MODE 24 MASK MODE 25 MASK MODE 26 MASK MODE 27 MASK MODE 28 MASK MODE 29 MASK MODE 29 MASK MODE 2E MASK MODE 2F MASK MODE 30 MASK MODE 31 MASK MODE 51	Window (for measuring the peak luminance during WB adjustment, Hi = 1023) Window (for measuring the peak luminance, Hi = 1023, 4%) Window (for measuring the peak luminance, Hi = 1023, 1.25%) Window (vertical line with 1/7-width for measuring the stress) Window (magenta, green, and stripe for check) Window (green,magenta, and stripe for check) Window (black & white [1 x 8], checker, for EMG check) Window (for WB adjustment, magenta = 512, yellow = 512) Wiper for erasing afterimage Mask for warning of cable disconnection ColorBar Slanted lines (for checking cable disconnection) Raster-white			
M20 M21 M22 M23 M24 M25 M26 M27 M28 M29 M2E M30 M31 M51 M52	MASK MODE 21 MASK MODE 22 MASK MODE 23 MASK MODE 24 MASK MODE 25 MASK MODE 26 MASK MODE 27 MASK MODE 28 MASK MODE 29 MASK MODE 29 MASK MODE 2E MASK MODE 2F MASK MODE 30 MASK MODE 31 MASK MODE 51 MASK MODE 52	Window (for measuring the peak luminance during WB adjustment, Hi = 1023) Window (for measuring the peak luminance, Hi = 1023, 4%) Window (for measuring the peak luminance, Hi = 1023, 1.25%) Window (vertical line with 1/7-width for measuring the stress) Window (magenta, green, and stripe for check) Window (green,magenta, and stripe for check) Window (black & white [1 x 8], checker, for EMG check) Window (for WB adjustment, magenta = 512, yellow = 512) Wiper for erasing afterimage Mask for warning of cable disconnection ColorBar Slanted lines (for checking cable disconnection) Raster-white Raster-red			
M20 M21 M22 M23 M24 M25 M26 M27 M28 M29 M2E M30 M31 M51 M51	MASK MODE 21 MASK MODE 22 MASK MODE 23 MASK MODE 24 MASK MODE 25 MASK MODE 26 MASK MODE 27 MASK MODE 28 MASK MODE 29 MASK MODE 29 MASK MODE 2E MASK MODE 2F MASK MODE 30 MASK MODE 31 MASK MODE 51 MASK MODE 52 MASK MODE 52 MASK MODE 53	Window (for measuring the peak luminance during WB adjustment, Hi = 1023) Window (for measuring the peak luminance, Hi = 1023, 4%) Window (for measuring the peak luminance, Hi = 1023, 1.25%) Window (vertical line with 1/7-width for measuring the stress) Window (magenta, green, and stripe for check) Window (green,magenta, and stripe for check) Window (black & white [1 x 8], checker, for EMG check) Window (for WB adjustment, magenta = 512, yellow = 512) Wiper for erasing afterimage Mask for warning of cable disconnection ColorBar Slanted lines (for checking cable disconnection) Raster-white Raster-red Raster-green			
M20 M21 M22 M23 M24 M25 M26 M27 M28 M29 M2E M30 M31 M51 M52 M53	MASK MODE 21 MASK MODE 22 MASK MODE 23 MASK MODE 24 MASK MODE 25 MASK MODE 26 MASK MODE 27 MASK MODE 28 MASK MODE 29 MASK MODE 29 MASK MODE 2E MASK MODE 2F MASK MODE 30 MASK MODE 31 MASK MODE 51 MASK MODE 52 MASK MODE 52 MASK MODE 53 MASK MODE 54	Window (for measuring the peak luminance during WB adjustment, Hi = 1023) Window (for measuring the peak luminance, Hi = 1023, 4%) Window (for measuring the peak luminance, Hi = 1023, 1.25%) Window (vertical line with 1/7-width for measuring the stress) Window (magenta, green, and stripe for check) Window (green,magenta, and stripe for check) Window (black & white [1 x 8], checker, for EMG check) Window (for WB adjustment, magenta = 512, yellow = 512) Wiper for erasing afterimage Mask for warning of cable disconnection ColorBar Slanted lines (for checking cable disconnection) Raster-white Raster-red Raster-green Raster-blue			
M20 M21 M22 M23 M24 M25 M26 M27 M28 M29 M2E M30 M31 M51	MASK MODE 21 MASK MODE 22 MASK MODE 23 MASK MODE 24 MASK MODE 25 MASK MODE 26 MASK MODE 27 MASK MODE 28 MASK MODE 29 MASK MODE 29 MASK MODE 2E MASK MODE 2F MASK MODE 30 MASK MODE 31 MASK MODE 51 MASK MODE 52 MASK MODE 52 MASK MODE 53	Window (for measuring the peak luminance during WB adjustment, Hi = 1023) Window (for measuring the peak luminance, Hi = 1023, 4%) Window (for measuring the peak luminance, Hi = 1023, 1.25%) Window (vertical line with 1/7-width for measuring the stress) Window (magenta, green, and stripe for check) Window (green,magenta, and stripe for check) Window (black & white [1 x 8], checker, for EMG check) Window (for WB adjustment, magenta = 512, yellow = 512) Wiper for erasing afterimage Mask for warning of cable disconnection ColorBar Slanted lines (for checking cable disconnection) Raster-white Raster-red Raster-green			

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Command Nama		Function		Validity of direct numeric input		
	Command Name	Function	Validity	Lower limit		
[M]	MASK MODE 58	Poster vellou 1002				
M58 M59	MASK MODE 58 MASK MODE 59	Raster-yellow 1023 Raster-cyan 274				
M60	MASK MODE 60	Raster-flesh color 50				
M61	MASK MODE 60	Raster-light purple_50				
M62	MASK MODE 62	Raster-sky blue_50				
M63	MASK MODE 62	Raster-red 779				
M64	MASK MODE 64	Raster-cyan 218				
M65	MASK MODE 65	Raster-cyan 448				
M66	MASK MODE 66	Raster-flesh color 43				
M67	MASK MODE 67	Raster-red 640				
M68	MASK MODE 68	Raster-magenta 98				
M69	MASK MODE 69	Raster-sky blue 1_43				
M70	MASK MODE 70	Raster-sky blue 2_43				
M71	MASK MODE 71	Raster-light purple_43				
M72	MASK MODE 72	Raster-blue 960				
M73	MASK MODE 73	Raster-yellow 512				
M74	MASK MODE 74	Raster-gray 512 (reservation)				
MTN	MUTE NO	Canceling panel muting				
MTY	MUTE YES	Panel muting				
[N]	-	Ŭ				
NGN	NG NO	SD function off				
NMN	NEGATIVE MODE NO	Canceling negative-positive inversion display				
NMY	NEGATIVE MODE YES	Negative-positive inversion display				
[P]						
PBH	PANEL BLUE HIGH	Panel white-balance adjustment: Blue highlight	0	000	511	
PBL	PANEL BLUE LOW	Panel white-balance adjustment: Blue low light	0	000	999	
PCN	PC RGB NO	Setting input-signal type to video				
PCY	PC RGB YES	Setting input-signal type to PC				
PDN	POWER DOWN NO	The PD signal is not passed through the POWER SUPPLY Assy.				
PDY	POWER DOWN YES	The PD signal is passed through the POWER SUPPLY Assy.				
PGH	PANEL GREEN HIGH	Panel white-balance adjustment: Green highlight	0	000	511	
PGL	PANEL GREEN LOW	Panel white-balance adjustment: Green low light	0	000	999	
PLA	BRIGHT ENHANCE A	Center luminance-compensation function on (no correspondence with APL)				
PLB	BRIGHT ENHANCE B	Center luminance-compensation function on (in correspondence with APL, pattern 1)				
PLC	BRIGHT ENHANCE C	Center luminance-compensation function on (in correspondence with APL, pattern 2)				
PLN	BRIGHT ENHANCE NO	Center luminance-compensation function off				
PMB	PANEL MAIN BRIGHTNESS	Panel white-balance adjustment: Main brightness		000	999	
PMC	PANEL MAIN CONTRAST	Panel white-balance adjustment: Main contrast		000	511	
POF	POWER OFF	Power off				
PON	POWER ON	Power on				
PRH	PANEL RED HIGH	Panel white balance adjustment-red highlight	0	000	511	
PRL	PANEL RED LOW	Panel white-balance adjustment: Red low light	0	000	999	
[S]						
SCN	SYSTEM CABLE NO	Prohibiting monitoring of cable-disconnection detection				
SCY	SYSTEM CABLE YES	Permitting monitoring of cable-disconnection detection				
SPN	SCAN PROTECT NO	SCAN IC protection process OFF				
SPY	SCAN PROTECT YES	SCAN IC protection process ON				
SRN	SRS NO	SRS function off				
SRY	SRS YES	SRS function on				
[T]						
TBN	TRUBASS NO	TruBass function off				
TBY	TRUBASS YES	TruBass function on				
TRE	TREBLE ADJUSTMENT	Audio treble adjustment	0	121	135	
[U]						
UAJ	UN-ADJUSTMENT	Determining the flag for the DIGITAL VIDEO Assy adjustment in "not adjusted"				
[V]						
VOF	Vofs ADJUSTMENT	Vofs voltage reference-value adjustment	0	000	255	
VOL	VOLUME	Audio volume adjustment	0	000	060	
VSU	Vsus ADJUSTMENT	Vsus voltage reference-value adjustment	0	000	255	
[W]						
WA1	WB APL 1	Setting the APL-interlocking pattern for white balance to 1.				
WA2	WB APL 2	Setting the APL-interlocking pattern for white balance to 2.				
WA3	WB APL 3	Setting the APL-interlocking pattern for white balance to 3.				
WA4	WB APL 4	Setting the APL-interlocking pattern for white balance to 4.				
WAN	WB APL NO	Setting the APL-interlocking for white balance to OFF.				
WAY	WB APL YES	Setting the APL-interlocking for white balance to ON.				
WIN	WB INITIALIZE NO	Panel White-Balance Initialization mode OFF				
WIY	WB INITIALIZE YES	Panel White-Balance Initialization mode ON				

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Command Name		Function	Validity	Validity of direct numeric input		
		Pulicilon	Validity	Lower limit	Upper limit	
[X]						
XD1	XSUS-D-1	XSUS-D-1 adjustment	0	000	255	
XD2	XSUS-D-2	XSUS-D-2 adjustment	0	000	255	
XU1	XSUS-U-1	XSUS-U-1 adjustment	0	000	255	
XU2	XSUS-U-2	XSUS-U-2 adjustment	0	000	255	
[Y]			0	000	255	
YD1	YSUS-D1-1	YSUS-D1-1 adjustment				
YD2	YSUS-D1-2	YSUS-D1-2 adjustment	0	000	255	
YD3	YSUS-D2-1	YSUS-D2-1 adjustment	0	000	255	
YD4	YSUS-D2-2	YSUS-D2-2 adjustment	0	000	255	
YU1	YSUS-U-1	YSUS-U-1 adjustment	0	000	255	
YU2	YSUS-U-2	YSUS-U-2 adjustment	0	000	255	

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■ Command description

Command	Function	
GAJ	Obtaining various adjustment values	
GNP	Obtaining serial number of the panel side	
GPD	Obtaining power-down-point log	
GPW	Obtaining panel white-balance adjustment values	
GS1	Obtaining information on the unit, such as the software version	
GS2	Obtaining information on the status of the unit	
GSD	Obtaining information on shutdown	

GAJ: Obtaining data on ABL setting values, electronic-control adjustment values, and drive-system adjustment values

Order	Data	Size	Remarks
1	ABL table currently used	3 bytes	AB1 - AB3
2	ABL adjustment value	3 bytes	000 - 255
3	Vsus adjustment value	3 bytes	000 - 255
4	Vofs adjustment value	3 bytes	000 - 255
5	X-SUS-U1 adjustment value (XU1)	3 bytes	000 - 255
6	X-SUS-U2 adjustment value (XU2)	3 bytes	000 - 255
7	X-SUS-D2 adjustment value (XD2)	3 bytes	000 - 255
8	X-SUS-D1 adjustment value (XD1)	3 bytes	000 - 255
9	Y-SUS-U1 adjustment value (YU1)	3 bytes	000 - 255
10	Y-SUS-U2 adjustment value (YU2)	3 bytes	000 - 255
11	Y-SUS-D1-2 adjustment value (YD2)	3 bytes	000 - 255
12	Y-SUS-D1-1 adjustment value (YD1)	3 bytes	000 - 255
13	Y-SUS-D2-2 adjustment value (YD4)	3 bytes	000 - 255
14	Y-SUS-D2-1 adjustment value (YD3)	3 bytes	000 - 255

Note: Ignore the 2-byte checksum at the end.

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GNP: Obtaining serial number of the panel side

Order	Data	Size	Remarks
1	Panel serial number	15 bytes	Alphanumeric, space, underbar, slash

Note: Ignore the 2-byte checksum at the end.

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GPD: Obtaining power-down-point log on the panel

Order	Data	Size	Remarks
1	Latest "1st PD" data	1 byte	0-D or F
2	Latest "2nd PD" data	1 byte	0-D or F
3	Data of hour meter for the latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
4	Data on temperature for the latest PD (TEMP1)	3 bytes	000 - 255
5	Second latest "1st PD" data	1 byte	0-D or F
6	Second latest "2nd PD" data	1 byte	0-D or F
7	Data of hour meter for the second latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
8	Data on temperature for the second latest PD (TEMP1)	3 bytes	000 - 255
9	Third latest "1st PD" data	1 byte	0-D or F
10	Third latest "2nd PD" data	1 byte	0-D or F
11	Data of hour meter for the third latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
12	Data on temperature for the third latest PD (TEMP1)	3 bytes	000 - 255
13	Fourth latest "1st PD" data	1 byte	0-D or F
14	Fourth latest "2nd PD" data	1 byte	0-D or F
15	Data of hour meter for the fourth latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
16	Data on temperature for the fourth latest PD (TEMP1)	3 bytes	000 - 255
17	Fifth latest "1st PD" data	1 byte	0-D or F
18	Fifth latest "2nd PD" data	1 byte	0-D or F
19	Data of hour meter for the fifth latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
20	Data on temperature for the fifth latest PD (TEMP1)	3 bytes	000 - 255
21	Sixth latest "1st PD" data	1 byte	0-D or F
22	Sixth latest "2nd PD" data	1 byte	0-D or F
23	Data of hour meter for the sixth latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
24	Data on temperature for the sixth latest PD (TEMP1)	3 bytes	000 - 255
25	Seventh latest "1st PD" data	1 byte	0-D or F
26	Seventh latest "2nd PD" data	1 byte	0-D or F
27	Data of hour meter for the seventh latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
28	Data on temperature for the seventh latest PD (TEMP1)	3 bytes	000 - 255
29	Eighth latest "1st PD" data	1 byte	0-D or F
30	Eighth latest "2nd PD" data	1 byte	0-D or F
31	Data of hour meter for the eighth latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
32	Data on temperature for the eighth latest PD (TEMP1)	3 bytes	000 - 255

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Notes: • Ignore the 2-byte checksum at the end.
• For details, see "Description on power-down."

• Description on power-down

Data	Power-down Point
0	No power-down
1	Not used (for MR-POWER)
2	Panel-POWER SUPPLY
3	SCAN
4	SCN-5V
5	Y-DRIVE
6	Y-DCDC
7	Y-SUS
8	ADR
9	X-DRIVE
Α	X-DCDC
В	X-SUS
O	DIG-DCDC
D	IC4
Е	Reservation
F	Power-down point unidentified

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GPW: Obtaining panel white-balance adjustment values

Order	Data	Size	Remarks
1	W/B table currently used	3 bytes	PT1 - PT3
2	Main contrast	4 bytes	0000 - 0511
3	Red contrast of W/B adjustment value	4 bytes	0000 - 0511
4	Green contrast of W/B adjustment value	4 bytes	0000 - 0511
5	Blue contrast of W/B adjustment value	4 bytes	0000 - 0511
6	Main brightness	4 bytes	0000 - 1023
7	Red brightness of W/B adjustment value	4 bytes	0000 - 1023
8	Green brightness of W/B adjustment value	4 bytes	0000 - 1023
9	Blue brightness of W/B adjustment value	4 bytes	0000 - 1023

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Note: Ignore the 2-byte checksum at the end.

GS1: Obtaining information on the unit, such as the software version

Order	Data	Size
1	Display data	3 bytes
2	Version of the module microcomputer	4 bytes
3	IC4-MANTA version	4 bytes
4	Sequence version (43VIDEO)	4 bytes
5	Sequence version (43PC)	4 bytes
6	Sequence version (50VIDEO)	4 bytes
7	Sequence version (50PC)	4 bytes

Notes: • Ignore the 2-byte checksum at the end.

• If a Media Receiver (MR) is connected, the version of the microcomputer inside the MR is displayed at the end. (Refer to the service manual of the Media Receiver.)

(Reference) GS2: Obtaining information on the status of the unit

Order	Data	Size	Remarks
1	Notifying that the unit is shifting to Standby mode	1 byte	1: OK for shifting to Standby
2	Whether or not the main unit has been adjusted	1 byte	0: Adjusted, 1: Not adjusted
3	With/without backup for adjustment values	1 byte	0: With backup, 1: Without backup
4	Data on power-down	2 bytes	1st byte: 1st PD, 2nd byte: 2nd PD
5	Data on temperature (TEMP1)	3 bytes	000 - 255
6	Abnormality in RST2 (power decrease of DC-DC converter)	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
7	IC4 communication failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
8	EEPROM communication failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
9	Audio failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
10	Volume IC communication failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
11	Backup ROM communication failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
12	Data on temperature (TEMP1) not obtained	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
13	Operational status of panel protection mechanism	1 byte	0: Protection mechanism not activated, 1: Protection mechanism activated
14	Reservation	2 bytes	**
15	Accumulated time of cleared hour-meter (*1)	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
16	Hour-meter (clearable) (*2)	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute

Notes: • Ignore the 2-byte checksum at the end.

- The data expected to be used for service may be "5. Data on temperature" and "15,16. Hour meter".
- (*1) Each time hour-meter data are cleared, the accumulated time data are updated. The total for data items 15 and 16 is the total power-on time after shipment. The accumulated time of cleared hour-meter data cannot be cleared.
- (*2) The hour-meter data that indicate driving hours of the panel are displayed on the Factory menu. Upon shipment, the data are cleared.

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GSD: Obtaining information on shutdown

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Order	Data	Size	Remarks
1	Latest SD data	1 byte	0 - 5
2	Latest SD subcategory data	1 byte	0 - 3
3	Data of hour meter for the latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
4	Data on temperature for the latest SD (TEMP1)	3 bytes	000 - 255
5	Second latest SD data	1 byte	0 - 5
6	Second latest SD subcategory data	1 byte	0 - 3
7	Data of hour meter for the second latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
8	Data on temperature for the second latest SD (TEMP1)	3 bytes	000 - 255
9	Third latest SD data	1 byte	0 - 5
10	Third latest SD subcategory data	1 byte	0 - 3
11	Data of hour meter for the third latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
12	Data on temperature for the third latest SD (TEMP1)	3 bytes	000 - 255
13	Fourth latest SD data	1 byte	0 - 5
14	Fourth latest SD subcategory data	1 byte	0 - 3
15	Data of hour meter for the fourth latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
16	Data on temperature for the fourth latest SD (TEMP1)	3 bytes	000 - 255
17	Fifth latest SD data	1 byte	0 - 5
18	Fifth latest SD subcategory data	1 byte	0 - 3
19	Data of hour meter for the fifth latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
20	Data on temperature for the fifth latest SD (TEMP1)	3 bytes	000 - 255
21	Sixth latest SD data	1 byte	0 - 5
22	Sixth latest SD subcategory data	1 byte	0 - 3
23	Data of hour meter for the sixth latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
24	Data on temperature for the sixth latest SD (TEMP1)	3 bytes	000 - 255
25	Seventh latest SD data	1 byte	0 - 5
26	Seventh latest SD subcategory data	1 byte	0 - 3
27	Data of hour meter for the seventh latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
28	Data on temperature for the seventh latest SD (TEMP1)	3 bytes	000 - 255
29	Eighth latest SD data	1 byte	0 - 5
30	Eighth latest SD subcategory data	1 byte	0 - 3
31	Data of hour meter for the eighth latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
32	Data on temperature for the eighth latest SD (TEMP1)	3 bytes	000 - 255

Notes: • Ignore the 2-byte checksum at the end.
• For details, see "Description on shutdown".

• Description of shutdown

Data	Factors of shutdown
0	No abnormality
1	IC4
2	Module microcomputer IIC
3	Abnormality in RST2 (power decrease of DC-DC converter)
4	Panel having high temperature
5	Audio failure (speakers short-circuited)
6	Reservation
7	Reservation
8	Reservation
9	Reservation
Α	Reservation
В	Reservation
С	Reservation
D	Reservation
Е	Reservation
F	Reservation

• Module microcomputer IIC: Data on SD subcategory

Data	Factors of shutdown
0	No subcategory
1	EEPROM (DIGITAL VIDEO Assy: IC5206)
2	EEPROM (PANEL IF Assy : IC4002)
3	Volume IC
4	Reservation
5	Reservation
6	Reservation
7	Reservation
8	Reservation
9	Reservation
Α	Reservation
В	Reservation
С	Reservation
D	Reservation
Е	Reservation
F	Reservation

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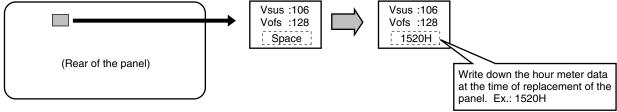
PDP-435PE

6.4 METHOD FOR REPLACING THE SERVICE PANEL ASSY

The following adjustments and operations are required when the Panel Assy is replaced for servicing.

■ Adjustments of the Vsus and Vofs voltages

Input the reference adjustment values that are described on the service panel for the Vsus and Vofs voltages, with the RS232C commands or on the Factory menu.

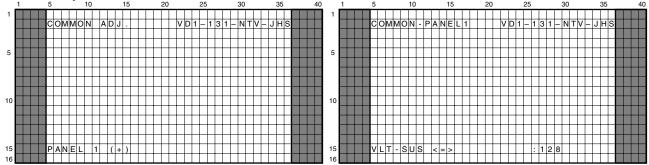


With the RS232C commands

Input the adjustment values described on the label attached on the rear of the panel:

- Reference adjustment of the Vsus voltage : [VSU***] Ex. : [VSU106]
 Reference adjustment of the Vofs voltage : [VOF***] Ex. : [VOF128]

On the Factory menu



Using the MUTE key, select the main item "COMMON ADJ." Select the subitem "PANEL 1" then "VLT-SUS" or "VLT-OFS," using the ▲ or ▼ key and SET key. Enter the value, using the ⋖ or ► key.

■ Clearing various logs for the panel, such as that for the hour meter

It is necessary to clear various logs, such as that for the hour meter, to match the driving hours of the panel before and after replacement. Write down the hour-meter data at the time of replacement of the panel on the label attached to the rear of the panel.

Notes: • For clearing, use the RS232C commands or the Factory menu.

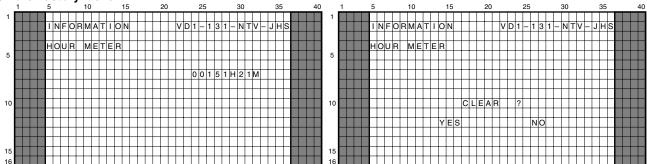
• There are two hour meters. Be careful not to mistake the MR hour meter for the hour meter for the panel.

With the RS232C commands

You can obtain the accumulated power-on time data of the product itself with the "GS2" RS232C command. (See "6.3 COMMANDS: Command description".)

1 For clearing the hour meter (for the panel): CHM 2 For clearing the pulse meter : CPM 3 For clearing the shutdown (SD) log : CSD 4 For clearing the power-down (PD) log : CPD

On the Factory menu



Using the MUTE key, select the main item "INFORMATION." Select the subitem "HOUR METER," using the ▲ or ▼ key and SET key. Clear the hour-meter data.

In the same way, select the subitem "PULSE METER," "PANEL SD," or "PANEL PD" under the main item "INFORMATION" then clear the data.

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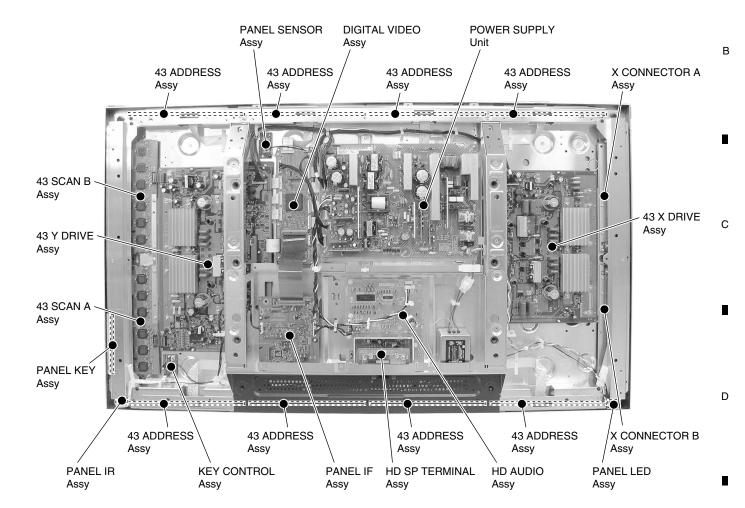
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7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 PCB LOCATION



● Rear view E

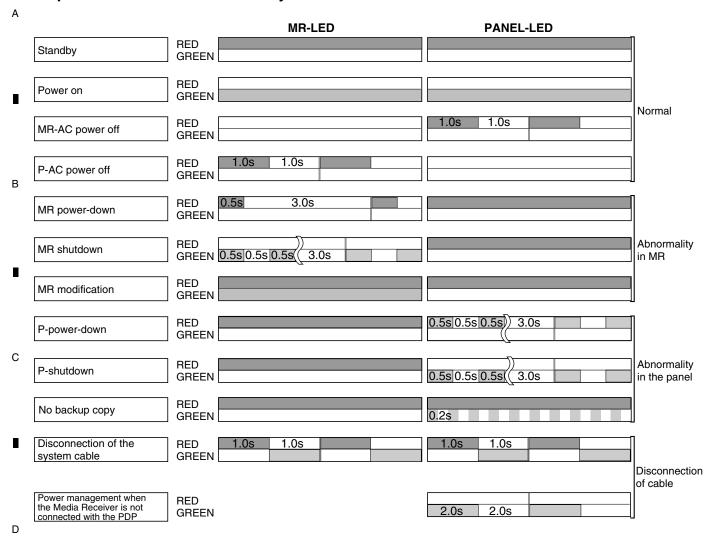
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7.1.2 DIAGNOSIS OF SHUTDOWN/POWER-DOWN INDICATED BY LEDS

• Operation statuses indicated by LEDs



Note: "P" stands for panel.

: Lit in red

Lit in green

: Not lit

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• Identification of locations having abnormality by the number of times the LEDs flash

■ On Shutdown and power-down

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Shutdowr

• Operation: When the microcomputer detects any abnormality, it forcibly turns off the unit.

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• LED indication: The green LED flashes.

Power-down

- Operation: When the unit is in emergency status, a protection circuit is activated, and the power is turned off.
- LED indication: The red LED flashes.

0-4	MR-	MR-LED PANEL-LED Content			Warning indication							
Category	STB	ON	STB	ON	Content	Unit's operation	when the MR is connected					
	Lit			1 time	Communication failure of the panel-drive IC	Immediate shutdown						
	Lit			2 times	Communication failure of the module IIC	Immediate shutdown						
	Lit			3 times	Power decrease of the digital DC-DC converter	Immediate shutdown						
	Lit			4 times	Panel having high temperature	Shutdown 30 seconds after warning	Powering off. Internal temperature is too high. Check temperature around PDP. [SD04]					
	Lit			5 times	Audio failure	Shutdown 3 seconds after warning	Powering off. Internal protection circuits turns power off. Is the speaker cable short-circuited ? [SD05]					
		6 times	Lit		Communication failure of the module microcomputer	Immediate shutdown	Is there a short in speaker cable ?					
SD		7 times	Lit		Main 3-wire serial communication in failure	Immediate shutdown						
		8 times	Lit		Communication failure of the main IIC	Immediate shutdown						
		9 times	Lit		Communication failure of the main microcomputer	Immediate shutdown						
		10 times	Lit		Fan in failure	Immediate shutdown						
		11 times	Lit		MR or unit having higher temperature	Shutdown 30 seconds after warning	Powering off. Internal temperature is too high. Check temperature around media receiver. [SD11]					
		12 times	Lit		Communication failure of the digital tuner	Immediate shutdown						
		13 times	Lit		MR-ASIC power (DC-DC) in failure	Immediate shutdown						
	1 time		Lit		MR power supply	Immediate power-down						
	Lit		2 times		Panel-POWER SUPPLY	Immediate power-down						
	Lit		3 times		SCAN	Immediate power-down						
	Lit		4 times		SCAN-5V	Immediate power-down						
	Lit		5 times	<u> </u>	Y-DRIVE	Immediate power-down						
	Lit		6 times		Y-DCDC	Immediate power-down						
PD	Lit		7 times		Y-SUS	Immediate power-down						
	Lit		8 times		ADDRESS	Immediate power-down						
	Lit		9 times		X-DRIVE	Immediate power-down						
	Lit		10 times		X-DCDC	Immediate power-down						
	Lit		11 times		X-SUS	Immediate power-down						
	Lit		12 times		DIGITAL-DCDC	Immediate power-down						
	Lit		13 times		IC4 *	Immediate power-down						
	Lit		15 times		UNKNOWN **	Immediate power-down						

^{*} If the power-down circuit for X-SUS/Y-SUS is activated because output of the drive waveform for IC4 is stopped, IC4-PD is displayed.

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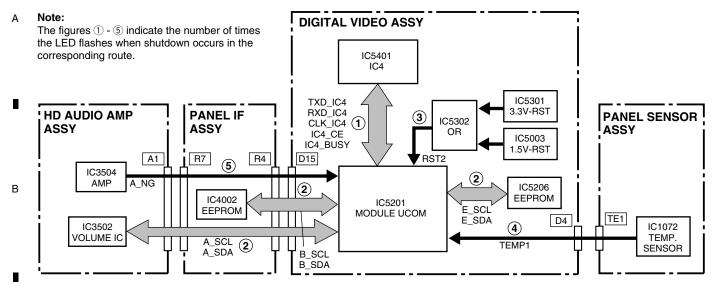
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^{**} If the unit cannot identify which protection circuit was activated, even if a power-down had been detected, the red LED may flash 15 times.

• Block diagram of the shutdown signal system

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Diagnosis of shutdown

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LED	SD Circuit in Operation	Defective Assy	Reason for Shutdown	Point to be Checked	Possible Defective Part	Remarks
			Communication failure of IC4	IC4 BLOCK, PANEL FLASH BLOCK	IC5401, IC5305	
1 time	Communication failure of the panel-drive IC	DIGITAL VIDEO	Writing failure of IC4			After turning the unit on again, check if the data on the version can be read with the GS1 command.
		DIGITAL VIDEO	Communication failure of the EEPROM (4K)	MODULE UCOM BLOCK	IC5206	
	Communication		Communication failure of the EEPROM (2K)	PANEL IF BLOCK	IC4002	
2 times	failure of the module IIC (Check the shutdown	PANEL IF	Disconnection of cable	CN4009 - CN3501		Check if the cable is disconnected or not securely connected.
	subcategory on the Factory menu.)		Defective 114-pin FPC	CN4004 - CN5001	ADY1081	Check if the 114-pin FPC is broken or not securely connected.
		HD AUDIO	Defective volume IC	HD AUDIO AMP Assy	IC3502	
	Power decrease of	DIGITAL VIDEO	Defective DC-DC converter	DIGITAL DD CON BLOCK	U5602	Check if 3.3 V and 1.5 V are activated.
3 times	DIGITAL-DC-DC		Defective RST IC	PANEL FLASH BLOCK	IC5301, IC5302, IC5303	
		POWER SUPPLY	No startup of 12 V			
			Cable disconnected	CN5202 - CN1071		
4 times	Panel having higher temperature	DIGITAL VIDEO	Panel having higher temperature	Surrounding temperature		Shutdown occurs when the sensor temperature becomes 74°C or more (PDP- 435PE) or 74°C or more (PDP-505PE).
			Speaker short-circuited	Speaker terminals		Check if the speaker cables are in contact with the chassis, etc.
5 times	Audio failure	HD AUDIO	Defective AMP IC	HD AUDIO AMP ASSY	IC3504	
		HD AUDIO	Disconnection of cable	CN4009 - CN3501		Check if the cable is disconnected or not securely connected.

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DIGITAL VIDEO ASSY

IC5214 IC5215 ADR_PD

(8)

D5 - D8

ADDRESS ASSY

(upper)

AD1

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The figures ① - ② indicate the number of times the LED flashes on the panel when power-down occurs in

the corresponding route.

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OR D9 -D12 **ADDRESS ASSY** (lower) AD1 12 DC-DC **POWER SUPPLY UNIT** CONVERTER DCC_PD D14 XDRIVE_PD 9 X DRIVE ASSY OR D1 XDD_CNV_PD P2 (10) X1 S5201 IC5208 XSUS_PD (11) PD-MUTE OR 0 0 Relay control circuit PD D13 PD_MUTE Y DRIVE ASSY SCAN_PD SCAN_5V_PD (4) Y1 YDRIVE_PD 6 YDD_CNV_PD Flashes in a case of YSUS_PD 2 power-supply-related Flashes in a case of power-down Protection power-down PS_PD other than power-supply-related circuit (Orange LED: D158) power-down (Red LED:D5201) 13 IC5201 IC5401 module PD_TRIGGER IC4 microcomputer

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PD Circuit in

operation MR POWER Ш

Reason for Power-down

Defective Assy

Power-down diagnosis (defective points)

<u> </u>	MR POWER					
2	POWER	POWER SUPPLY Unit				If the elapsed time from relay-on until the LE in the power supply unit lights is about 2-4 seconds, the defective assembly may be the 43 X or Y DRIVE.
	311211	43 X DRIVE Assy	VSUS UVP	X SUS BLOCK	IC1203, IC1207 (mask module)	
		43 Y DRIVE Assy	VSUS UVP	Y SUS BLOCK	IC2303, IC2307 (mask module)	
			VH UVP	SCAN IC	SCAN IC	
3	SCAN	43 SCANA, B Assy or Y 43 DRIVE Assy	VH UVP	VH DC/DC	IC2401, IC2402, IC2410, L2401	
		OF 1 45 DITIVE ASSY	VH OVP	VH DC/DC	IC2402, IC2410	
			Disconnection of cable detected	CN2001, CN2301		
			Disconnection of cable detected	CN2101, CN2102, CN2301		
4	SCN-5V	43 SCANA, B Assy or Y 43 DRIVE Assy	IC5V UVP	SCAN IC, IC5V DC/DC Y SUS BLOCK	SCAN IC, Q2401, Q2402, IC2304,	
			IC5V OVP	IC5V DC/DC	IC2403, IC2411	
5	Y-DRIVE	43 Y DRIVE Assy	+16.5V OCP	Y SUS BLOCK	IC2303, IC2307 (mask module), IC2301, IC2304, IC2305, R2332	
_	V DODG	40 V DDIVE A	VOFS UVP	VOFS DC/DC	IC2404, IC2412, Q2404, Q2407, Q2312	
Ó	Y-DCDC	43 Y DRIVE Assy	VOFS OVP	VOFS DC/DC	IC2404, IC2412	
7	Y-SUS	43 Y DRIVE Assy	Power-down caused by detection of middle-point voltage	Y RESONANCE BLOCK	Q2202, Q2203, Q2214, Q2205, Q2206, Q2208, Q2209, Q2212, IC2201, IC2202, D2201, D2206, D2220, D2211, D2225, D2230, Control signal series resistors	
		40 4000000	Disconnection of cable detected	CN1501		
8	ADRS	43 ADDRESS Assy	Power-down caused by detection of a power surge	ADR RESONANCE BLOCK	R1631, Q1601, D1602	
			Disconnection of cable detected	CN1001, CN1201		
9	X-DRIVE	43 X DRIVE Assy	+16.5V OCP	X SUS BLOCK	IC1203, IC1207 (mask module), IC1204, IC1206, R1230, IC1205	
			VRN OCP	X SUS BLOCK	Q1205, R1226, R1251	
			VRN OVP	VRN DC/DC	IC1403, IC1404	
0	X-DCDC	43 X DRIVE Assy	VENTINE	VRN DC/DC	IC1402, IC1403, IC1404	
			VRN UVP	X SUS BLOCK	Q1205, R1226, R1251	
1	X-SUS	43 X DRIVE Assy	Power-down caused by detection of middle-point voltage	X RESONANCE BLOCK	Q1102, Q1103, Q1114, Q1105, Q1108, Q1109, Q1111, Q1112, IC1101, IC1102, D1103, D1113, D1118, D1125, D1129, D1130, Control signal series resistors	
12	DIG-DCDC	DIGITAL VIDEO Assy	DCDC +3.3V, +1.5V OVP	DC DC CONVERTER BLOCK	U5602 (DC DC CONVERTER Module)	
3	IC4	DIGITAL VIDEO Assy	IC4 Drive STOP	IC4 BLOCK	IC5401	

Point to be Checked

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Possible Defective Part

Remarks

OVP: Over Voltage Protection

UVP: **U**nder **V**oltage **P**rotection

OCP: Over Current Protection

7.1.3 DIAGNOSIS WITH THE AID OF FACTORY MODE

Diagnosis with the aid of Factory mode

When the Media Receiver is connected, the power-down and shutdown logs can be referred to with OSD. Only the items useful when servicing the PDP-435PE/PRO-435PU are described here.

■ How to enter Factory mode using the remote control unit

Please refer to the technical documentation. (Service knowhow is the same as G4 PDP models.)

■ Power-down log (INFORMATION-PANEL PD)

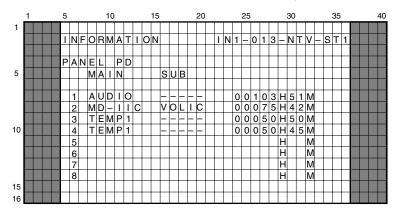
The last 8 power-down records are held, with the latest power-down displayed at the top. In the FIRST column, the location where the PD circuit was activated first (location indicated by flashing of the LED during power-down) is indicated, and in the SECOND column, the location where the PD circuit was activated second is indicated.

Note: There may not be a SECOND PD.

	1		5					10					15		20					25						30		35								10	
1																																					
			I	N	F	0	R	M	Α	Т	I	0	Ν						I	Ν	1	-	0	1	3	-	Ν	Т	>	_	S	Т	1				
																																					ı
			Р	Α	N	Ε	L		Р	D	Г	Г	П				Г	Г			Г			Г	П							Г	Г				
5						F	I	R	S	Т				S	Е	С	0	Ν	D																		
				1	Г	Х	-	D	R	٧	Г	Г	П	_	-	-	-	F					0	0	5	2	3	Н	5	1	М	Г	Г				
				2		Υ	-	S	U	S		Г		Υ	_	D	С	D	С				0	0	2	7	5	Η	4	2	M	Г					
				3		S	С	Α	Ν					_	-	-	-	-					0	0	0	9	0	Η	5	0	M						
10				4	Г	Υ	-	D	С	D	С	Г		_	-	-	-	F					0	0	0	4	3	Н	0	3	М	Г	Г				
				5	Г	S	С	Ν	_	5	٧	Г		_	_	_	-	-					0	0	0	0	2	Η	3	1	M	Г					
				6		Α	D	R	S					_	-	_	-	-					0	0	0	0	0	Η	0	7	M						
				7																								Η			M						
				8																								Н			M						
15																																					
16																																					

■ Shutdown log (INFORMATION-PANEL SD)

The last 8 shutdown records are held, with the latest shutdown displayed at the top. If a shutdown occurred because of "MD-IIC" (communication failure of the module microcomputer IIC), the subcategory is indicated to inform you of with which device the microcomputer was in the process of communicating when a failure occurred.



[Data on MD-IIC subcategories]

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OSD	Defective communication part
EROM4K	IC5206: Module microcomputer EEPROM
EROM2K	IC4002: EEPROM for backup
VOLIC	IC3502-Volume IC

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■ Data on temperature (INFORMATION-TEMPERATURE)

The data on the current temperatures are displayed.

The temperature at the PANEL SENSOR ASSY of the PDP-435PE/PRO-435PU is indicated as the TEMP 1 value (000-255), which should be converted using the following formula:

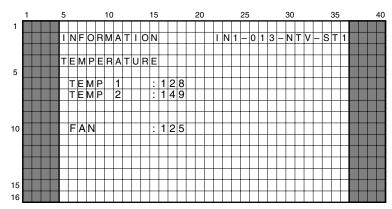
Current temperature (°C) = 0.65 × TEMP 1 value - 52

Note: Shutdown caused by high TEMP 1 value PDP-435PE: TEMP 1 value > 195 (≒ 74°C) PRO-435PU: TEMP 1 value > 195 (≒ 74°C)

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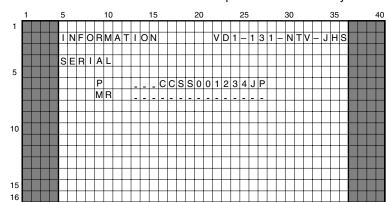


Note: To update the data on temperature, use the Left and Right keys on the remote control unit.

PDP-435PE

Reference: Serial-number information (INFORMATION-SERIAL)

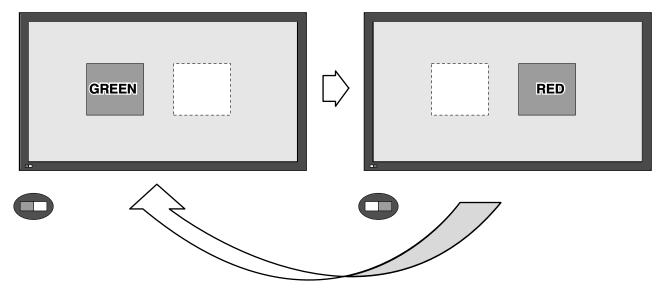
You can check the serial number of the product on the Factory menu.



7.1.4 OPERATION WHEN THE MEDIA RECEIVER IS NOT CONNECTED

As the connection conditions of the system cables (MDR cable, DVI cable) are usually detected, if no connection, such as cable disconnection, is detected, a warning indication (alternate flashing of the red and green areas) is displayed on the mask screen, and the red and green LEDs flash alternately. Then after about 30 seconds, the power is automatically turned off.

Note: Only when the power is turned on again, a warning indication on the mask screen restarts. During standby, only the red and green LEDs flash alternately.



Alternate flashing at intervals of about 1 second

To operate the panel without the Media Receiver, there are the following two ways:

1. Operation-without-the-Media-Receiver mode

Input the "SCN" RS232C command. The status of the LEDs changes to that in normal operation mode.

Note: Turning the AC switch to OFF then ON also maintains this mode. However, once the unit is connected with the Media Receiver using the MDR cable, this mode is automatically canceled.

2. DVI mode

Turn the unit on while DVI SG signals are being input with only the DVI connecter connected. After a warning is displayed for about 5 seconds, the unit is ready to display the screen of the input signal. (Green LED lit)

Notes: • Although the output from XGA (43 inch) and WXGA (50 inch) can be input to the unit, this is not a mode open to general users. (With some signals, errors such as power-down may occur.)

- If a DE signal from the SG is not input during DVI mode, the green LED flashes (at intervals of 2 sec) for about 8 seconds, then the unit shifts to Power Management mode (the green LED lights).
- Although the PC signal data are displayed for the PDP-434P series panels, for the PDP-435P series panels this is not possible, because the EDID-ROM has not been provided.

7.1.5 TEMPERATURE-COMPENSATION FUNCTION OF THE DRIVE-SYSTEM VOLTAGE

Function: To control the DRIVE-system voltage according to the temperature (Temperature compensation functions such that the voltage is lowered on the lower-temperature side and the voltage becomes higher on the higher-temperature side.)

Purpose: For improving the yield by compensating for the temperature characteristics of the panel

Note: Temperature compensation is performed only for the VSUS voltage, and not for the VOFS voltage. This compensation is controlled by the software.

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7.1.6 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM

Function: Only the power for the low voltage lines (16 V, 12 V, and 6.5 V) is on, and the power for the high voltage lines (VSUS, VADR) is off.

Usage: 1. Use when only an operational check for the low voltage lines is required, such as when making repairs.

2. Use when rewriting of a program for each microcomputer is required.

Methods: 1 Set the slide switch (S5201) on the DIGITAL VIDEO Assy to its upper position (See Fig. below).

- 2. Send the "DRF" RS232C command to turn the large-signal system off.
- 3. Send the "DRN" RS232C command to turn the large-signal system on.

Notes:

- As the unit enters Power-Down and Muting On mode when Methods 1 and 2 are performed, and power-downs other than those caused by the power (PS_PD) and DC-DC-converter (DIGITAL_DC-DC) circuits are not activated.
- If the slide switch is set from OFF to ON while the power is on, a power-down will occur. Be sure to turn the power off before switching the slide switch.
- When using the RS232C commands, as with the slide switch, do not use the "DRN" command (DRIVE ON) while the power is on, although doing so will not cause a power-down.
- Although the "DRF" RS232C command is enabled during Standby, if the power is turned on then turned off, the unit will return to "DRN" mode.

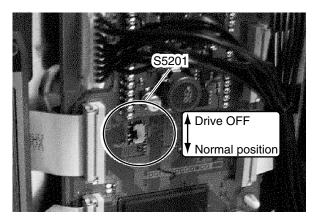


Fig. Drive OFF switch

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7.1.7 BACKUP WHEN THE MAIN UNIT IS ADJUSTED

Outline

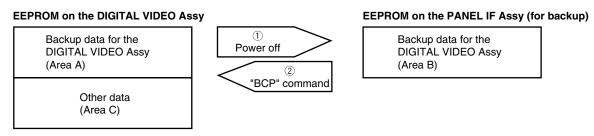
The data on the adjustment values for the main unit are stored in an EEPROM (IC5206, 4 kbits) on the DIGITAL VIDEO Assy. Part of the data (area A in the figure below) are automatically copied to an EEPROM (IC4002, 2 kbits) mounted on the PANEL IF Assy for backup. When the DIGITAL VIDEO Assy is replaced, the backup data on the adjustment values for the main unit stored in the PANEL IF Assy can be copied to the new DIGITAL VIDEO Assy, thus enabling you to omit newly performing adjustments on the main unit. The logs for the product (power-down log, etc.) can also be copied.

■ Data to be backed up in the digital EEPROM (area A)

- Margin adjustment values (Vsus, Vofset)
- Power upper-limit adjustment value (ABL)
- PANEL white-balance adjustment values (PANEL-R HIGH, PANEL-G HIGH, PANEL-B HIGH, PANEL-R LOW, PANEL-G LOW, PANEL-B LOW)
- Drive waveform adjustment values (X-SUS-U1, X-SUS-U2, X-SUS-D1, X-SUS-D2, Y-SUS-U1, Y-SUS-U2, Y-SUS-D1, Y-SUS-D2, Y-SUS-D3, Y-SUS-D4)
- Hour meter
- · Pulse meter
- · Serial Number
- · Number of times the power has been turned on
- PD/SD logs

Basic flow of automatic backup

Using a keyword, the data in areas A and B are judged as to whether they have been adjusted or not, then copying is performed.

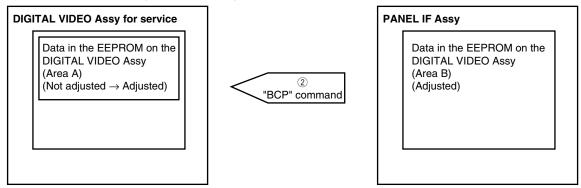


- ① The keyword on the DIGITAL VIDEO Assy is checked when the power is turned off, and if it is "adjusted", automatic backup is performed.
- ② If the keyword on the PANEL IF Assy (Area B) is "adjusted," copying can be performed with the "BCP" RS232C command.

Actual automatic backup operations by RS-232C command

1. When the DIGITAL VIDEO Assy is replaced with a new DIGITAL VIDEO Assy for service Changing of keywords is not required. Replace the DIGITAL VIDEO Assy with an Assy for service, and send the "BCP" RS232C command. Thus, the backup data in the EEPROM on the PANEL IF Assy are copied to the EEPROM on the DIGITAL VIDEO Assy for

Note: To remind you to send the "BCP" command after replacing the DIGITAL VIDEO Assy with one for service, a warning by the LEDs (the red LED lit and the green LED flashing at intervals of 200 ms) is indicated until the "BCP" command is issued.



2. When a repaired DIGITAL VIDEO Assy is mounted on another unit (reuse of the repaired DIGITAL VIDEO Assy) The keyword of the DIGITAL VIDEO Assy to be reused must be changed to "not adjusted" using the "UAJ" RS232C command.

Note 1: If a repaired DIGITAL VIDEO Assy is mounted in another unit (Unit 2) without this change of keyword, and the power to the unit 2 is turned off, the data in force before the repair of the DIGITAL VIDEO Assy will be copied to Area B of the PANEL IF Assy of Unit 2, overwriting the data necessary for Unit 2. Once overwritten, the original data will not be restored.

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- 3. When a repaired DIGITAL VIDEO Assy is mounted on the original unit (reuse of the repaired DIGITAL VIDEO Assy)
 Changing of keywords is not required. After the repaired DIGITAL VIDEO Assy is mounted in the original unit, the unit can operate with its latest adjustment values.
- 4. When both the DIGITAL VIDEO Assy and PANEL IF Assy are simultaneously replaced with other assemblies The automatic backup function of this unit will not work properly.
- Note 2: Readjustment of the main unit is required.
- Note 3: After readjustment of the main unit, send the "FAJ" RS232C command to change the keyword of the DIGITAL VIDEO Assy to "adjusted." Thus, when the unit is turned off, automatic backup of adjustment data is performed properly.
- Note 4: If readjustment of the main unit is totally impossible, it can be omitted by installing the EEPROM (IC5206, 4 kbits) originally mounted on the DIGITAL VIDEO Assy for service.

■ Automatic backup operations in Service/Factory mode

[Status confirmation]

В

- Display the screen page shown below to check if the DIGITAL VIDEO Assy has been adjusted or a new service part might have been installed without adjustment being performed, and if the adjustment values have been stored in the backup ROM. If the DIGITAL VIDEO Assy has not been adjusted (NG), the red LED lights, and the green LED flashes at intervals of 200 ms. In such a case, be sure to download the data from the backup ROM.
 - 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

 INFORMATION VD1-013-NTV-ST1

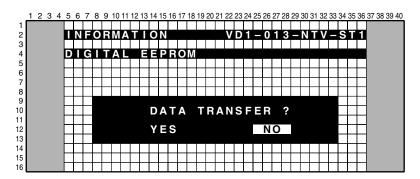
 DIGITAL EEPROM

 ADJUST : NG
 BACK UP : OK

D [Downloading the adjustment data from the backup ROM] (Required after the DIGITAL VIDEO Assy is replaced)

After the DIGITAL VIDEO Assy is replaced, enter Service/Factory mode to copy the data from the backup ROM. Display the screen page shown above after entering Service/Factory mode then press the Enter key. The indication below is displayed. Move the cursor to YES then press the Enter key to start copying the data from the backup ROM to the new DIGITAL VIDEO Assy.

Note: Be sure to perform this operation when the DIGITAL VIDEO Assy is replaced with a new service part.



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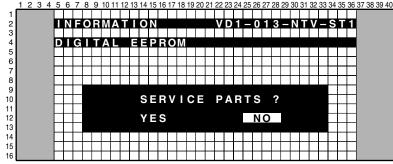
PDP-435PE

[Clearing the data in the ROM of the DIGITAL VIDEO Assy]

After either YES or NO is selected on the display shown above, the indication shown below is automatically displayed. Move the cursor to YES then press the Enter key. The data in the ROM of the DIGITAL VIDEO Assy become those for a service part (not adjusted).

Notes: • Use this operation after the DIGITAL VIDEO Assy in failure is repaired and is to be reused as a service part.

• In normal replacement of the Assy with a new service part, this operation is not required. Select NO after replacement with a service part.



When either YES or NO is selected on the above display, the display will automatically return to that for status confirmation shown above.

Miscellaneous

If the white balance (W/B) value is largely shifted because of aging, etc., W/B adjustment is required. (As this may be a rare case, the adjustment procedures are described below, just for your reference.)

[W/B-adjustment procedures]

The W/B adjustment can be performed with the RS232C commands with the Media Receiver not connected to this unit. The GGF1475 special communication tool and a Minolta CA-100 color difference meter are required.

- ① Enter Operation-without-the-Media-Receiver mode with the "SCN" RS232C command.
- ② Set the keyword for the DIGITAL VIDEO Assy to "not adjusted" with the "UAJ" RS232C command.
- 3 Obtain the current adjustment values in the two adjustment tables (see "6.3.1 RS232C commands").
 - Shifting to Table 1: Send the "M51" and "F60" commands. Obtaining the adjustment values: Send the "GPW" command.
 - Shifting to Table 2: Send the "M51" and "F75" commands. Obtaining the adjustment values: Send the "GPW" command.
- 4 Make settings for various functions.

Send the "PPN," "SDN," "SPN," and "WAY" commands.

Note: After adjustment, when the POWER switch is set to OFF, these settings will be reset to the initial values.

- ⑤ For each table, set the brightness.
 - Adjustment in Table 1: After sending the "F60" command, perform adjustment.
 - Adjustment in Table 2: After sending the "F75" command, perform adjustment.

For each table, change the RGB parameters so that the values measured using a Minolta color difference meter (CA-100) become as indicated below. In this case, any one of PRH, PGH, or PBH must be set to 256.

	Right side of Mask H	PRH***" : 000 - 511
х	285	"PGH***" : 000 - 511
у	289	"PBH***" : 000 - 511

- 6 Check after adjustment
 - Shifting to Table 1: Send the "F60" command. Obtaining the adjustment values: Send the "GPW" command.
 - Shifting to Table 2: Send the "F75" command. Obtaining the adjustment values: Send the "GPW" command. Check that the adjustment data have been changed.
- ① Change the keyword for the DIGITAL VIDEO Assy to "adjusted" by sending the "FAJ" RS232C command.

Note: Use a Minolta CA-100 color difference meter or the equivalent for measurement. Otherwise, the specifications of the product cannot be assured.

Note: To cancel adjusted data and return to the values before adjustment, send the "BCP" RS232C command. Turn the AC power off then turn it back on before setting the unit to Standby OFF. The backup values are then retrieved.

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[Diagnosis of abnormalities other than shutdown and power-down]

Defective Assv

KEY CONTROL

PANEL IR

ADDRESS

DIGITAL VIDEO

Possible Cause

Cable disconnection

Defective 114-pin FPC

Defective system cables

No backup copy

Cable disconnection

Cable disconnection

Cable disconnection

Defective IC4

Defective KEY SCAN IC

Defective infrared receiver

Defective 114-pin FPC

System cables not connected

Symptom

No power (both red and green LEDs unlit)

The power is (sometimes) interrupted.

The power is interrupted, and the red and

green warning indications appear on the

While the red LED remains lit, the green

LED begins flashing (200 ms).

Remote control unit not effective

Abnormality in a one-eighth area of the

(Data of every other dot are abnormal)

Key input not effective

screen

Abnormal screen

 \sim

PDP-435PE

No power (green LED not lit)

Possible

Defective Part

ADY1081

ADD1225

U4901

IC5401

ADY1081

Remarks

Check if the connection between the POWER SUPPLY and PANEL

Check if the system cables are securely connected. (See "7.1.4"

Check connection of the system cables. (See "7.1.4 Operation

The backup copy process was not performed when the Digital Assy

was replaced. (See "7.1.7 Backup when the main unit is adjusted".)

Check if the FPCs are properly connected. Check if imparting

vibration to the unit affects key inputs. Check if a pulse is output when the key corresponding to Pin 2 of the CN4852 is pressed. Check if the cables are disconnected or not securely connected.

Check if a pulse is output when the key corresponding to Pin 8 of

Check if a pulse is output when the key corresponding to Pin 2 of

Check if the cables are not connected or securely connected.

Check if a pulse is output when the key corresponding to Pin 3 of

Check if an abnormal area in the screen changes when the FPC

connected to the address corresponding to the abnormal area is replaced with the one corresponding to the next address.

Check that an abnormal area in the screen does not change when

the FPC connected to the address corresponding to the abnormal area is replaced with the one corresponding to the next address.

Check if the FPC is broken or not securely inserted.

Check if the FPC is broken or not securely inserted.

when the Media Receiver is not connected.")

Operation when the Media Receiver is not connected.")

IF assemblies is properly made.

the CN4010 is pressed.

the CN4852 is pressed.

the CN4010 is pressed.

Check Point

CN4004 - CN5001

CN4002, CN4003

CN4801 - CN4851

CN4852 - CN4010

CN4901 - CN4010

PANEL IR

IC4 BLOCK

CN4004 - CN5001

KEY CONTROL Assy IC4851

CN4001

1 Rear Case (43P) and Front Case Assy (43P)

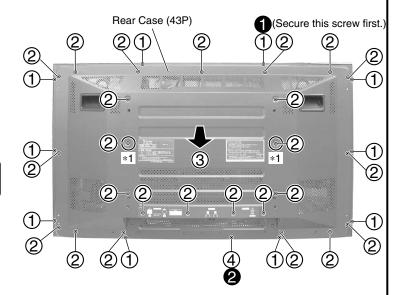
(1) Remove the ten screws.

(2) Remove the 25 screws.

When reassembling, first secure the screws for these holes to position the Rear Case (43P) correctly.

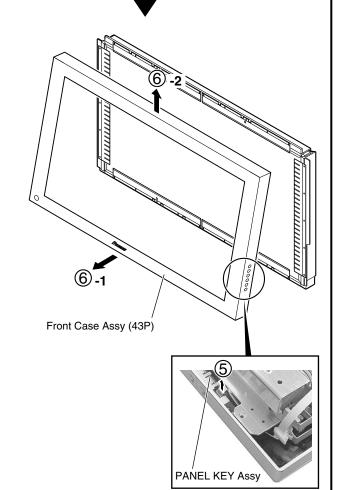
- (3) Remove the Rear Case (43P).
- (4) Remove the screw.

- When reassembling the Front Case Assy (43P) -Secure the screws in the order of 1 and 2. Then secure the screws on the upper side, the sides, then the lower side.



- (5) Remove the flexible cable on the PANEL KEY Assy.
- (6) Remove the Front Case Assy (43P).

Note: If you wish to remove only the Front Case Assy, you can remove it in the order of ①, ④, ⑤, and ⑥.



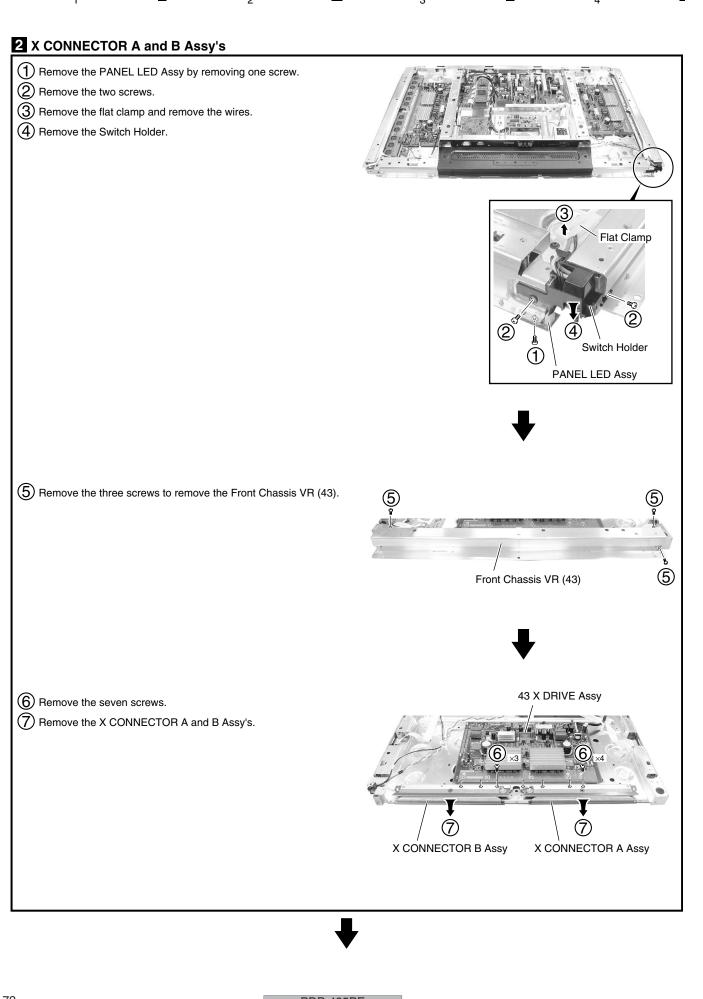


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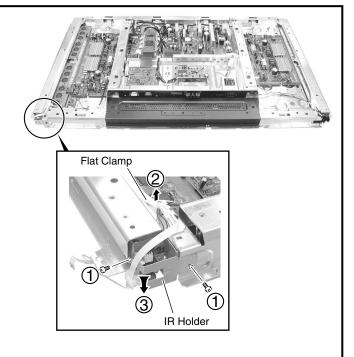
PDP-435PE

2

3

3 43 SCAN A and B Assy's

- (1) Remove the two screws.
- 2 Remove the flat clamp and remove the wires.
- Remove the IR Holder.



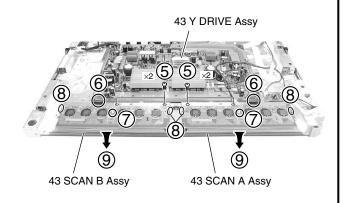


A Remove the three screws to remove the Front Chassis VL (43).





- (5) Remove the four screws.
- 6 Disconnect the two pin connectors.
- Remove the two PCB spacers.
- 8 Remove the four edge card spacers.
- 9 Remove the 43 SCAN A and B Assy's.





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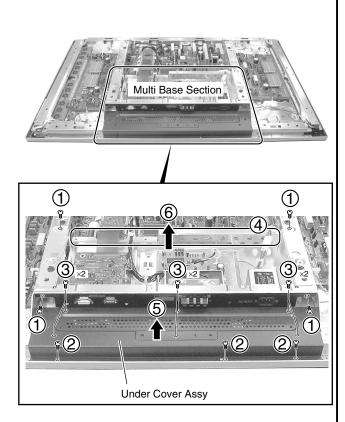
С

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Е

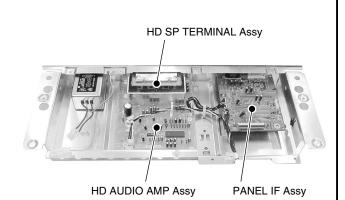
To access the Multi Base Section, only the Rear Case must be removed. No other parts need to be removed.

- 1 Remove the four screws.
- Remove the three screws.
- 3 Remove the six screws.
- 4 Disconnect the connectors.
- (5) Remove the Under Cover Assy.
- 6 Remove the Multi Base Section.



3





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7.2 IC INFORMATION

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

6

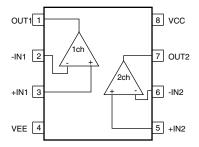
List of IC

BA10393F, BA10358F, BA8274F, NJM2195L, MBM29PL160BD-75PFTN, SII169CTG100, STK795-510, STK795-511, LA4625, M30622FHPGP, PDG054A, SN755866PZP

■ BA10393F (43 X DRIVE ASSY: IC1103) (43 Y DRIVE ASSY: IC2211)

• Comparator IC

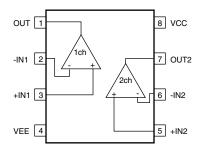
● Pin Arrangement (Top view) / Block Diagram



■ BA10358F (43 Y DRIVE ASSY: IC2406)

• OP-AMP IC

● Pin Arrangement (Top view) / Block Diagram



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■ BA8274F (PANEL IF ASSY: IC4206)

• I²C Bus Interface IC

• Block Diagram

Α

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С

Vcc LY SY N.C.

8 7 6 5

Buffer

Buffer

1 2 3 4

N.C. Lx Sx GND

3

• Pin Function

Pin No.	Pin Name	Equivalent Circuit	Pin Function
2 7	Lx Ly	Vcc	Buffer output
3 6	Sx Sy	Vcc 35.7 \$	Buffer input
4	GND	_	Ground
8	Vcc	_	Power supply

F

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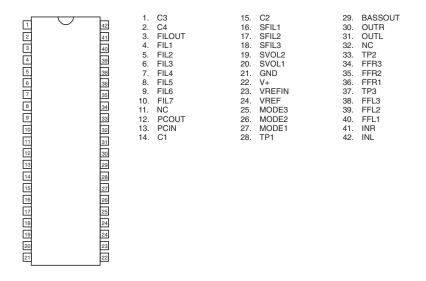
_

■ NJM2195L (HD AUDIO AMP ASSY: IC3501)

• Focus and SRS IC

5

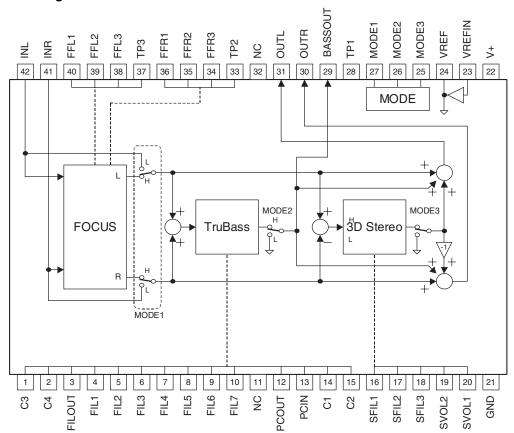
Pin Arrangement (Top view)



6

Block Diagram

5



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В

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PDP-435PE

3

■ 2 **■** 3 **■** 4

Pin Function

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	No.		Pin		Familyalant Circuit	
SDIP42	SOP40	QFP48	Name		Equivalent Circuit	
14	13	9	C1		V+ V	0V
15	14	10	C2		V+ V+ V+ V+ V+	0V
16 17 18	15 16 17	11 14 15	SFIL1 SFIL2 SFIL3		V+ V+ V+	V+/2
19 2 5	18 2 5	16 44 47	SVOL2 C4 FIL2	WIDTH VR	V+ V+ V+	V+/2

F

• Pin Function

5

SDIP42	No. SOP40	QFP48	Pin Name		Equivalent Circuit	
21	20	18	GND	GND		OV
22	21	19	V+			V+
23	22	20	VREFIN		V+ V	V+/2
24 29 30 31 36 40 3	23 28 29 30 34 38 3	21 28 29 30 34 40 45	VREF BASSOUT OUTR OUTL FFR1 FFL1 FILOUT	TruBass Rch Lch	V+ V+ V+ V+ V+ W+	V+/2
25 26 27	24 25 26	22 23 26	MODE3 MODE2 MODE1	3 2 1	V+ V+ V+ V+	ov

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В

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2 3 4

Pin Function

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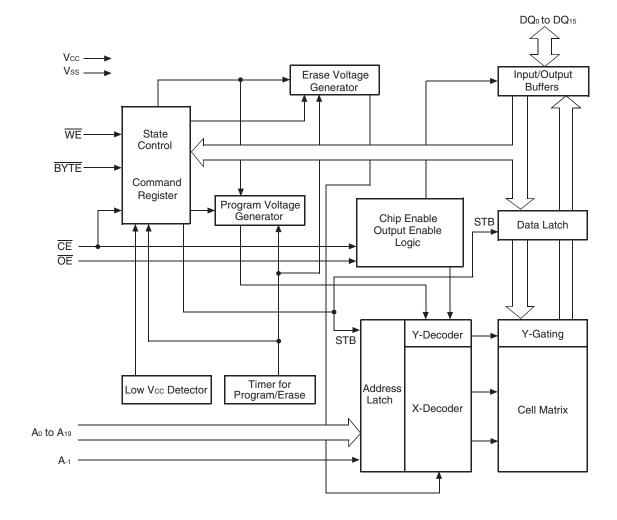
Ε

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No. Pin **Equivalent Circuit** SDIP42 SOP40 QFP48 Name 27 27 TP1 28 FFR2 V+/2 35 33 33 39 37 39 FFL2 TP2 33 31 31 37 TP3 35 35 41 39 41 INR Rch V+/2 42 40 42 INL Lch ↓ VREF 4 4 46 FIL1 V+/2

80 1 **=** 5

• Block Diagram



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■ SII169CTG100 (PANEL IF ASSY: IC4202)

2

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• Receiver IC

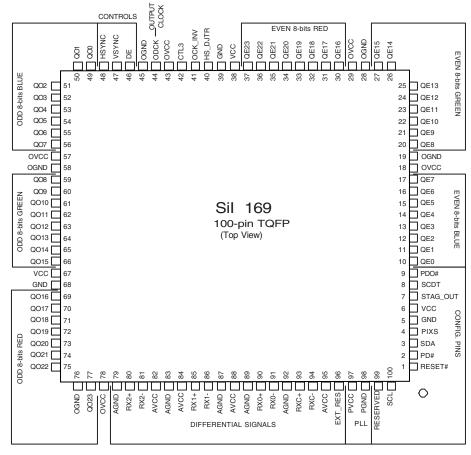
Α

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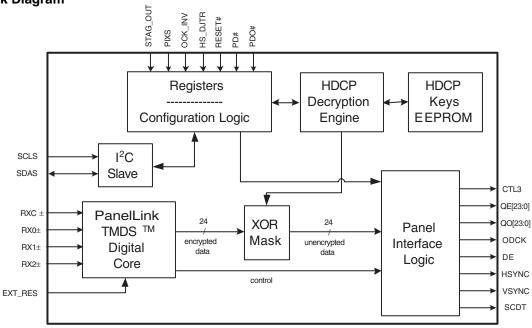
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Pin Arrangement (Top view)



Block Diagram



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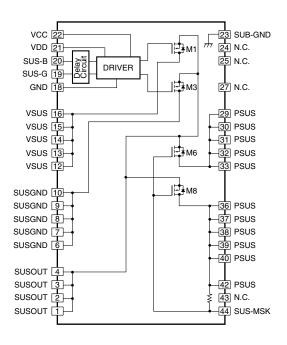
PDP-435PE

3

• PDP Mask Module IC

5

Block Diagram

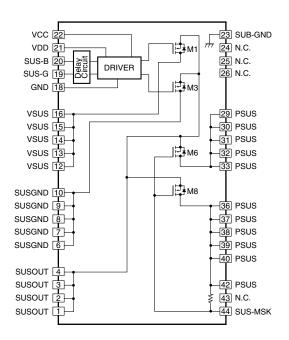


■ STK795-511 (43 Y DRIVE ASSY: IC2303, IC2307)

• PDP Mask Module IC

5

Block Diagram



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В

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PDP-435PE

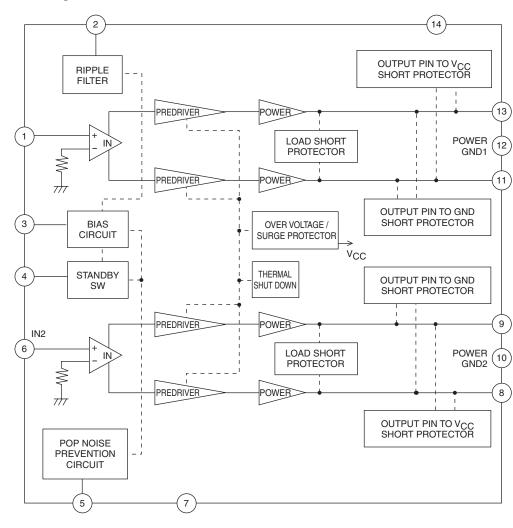
■ LA4625 (HD AUDIO ASSY: IC3504)

• 2ch BTL AF Power Amp IC

Block Diagram

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В



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PDP-435PE

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■ M30622FH8PGP (DIGITAL VIDEO ASSY : IC5201)

• PDP UCOM

● Pin Function (1/2)

No.	Pin Name	Function	1/0	ACTIVE
1	VSUS	[D/A] Vofs power control	0	
2	VOFS	[D/A] Vofs power control	0	
3	TXD_IC4	3 serial communication with IC4MANTA - data transmission	0	
4	RXD_IC4	3 serial communication with IC4MANTA - data receive	I	
5	CLK_IC4	3 serial communication with IC4MANTA - clock output	0	
6	BYTE	(GND connection)	Ī	
7	CNVSS	Pin for processor mode setting (pull-down)	ı	
8	NC	NC pin		
9	NC	NC pin		
10	RST_MD	Reset input	ı	L
11	XOUT	Output for main clock	0	+ -
12	VSS	GND		_
13	XIN	Input for main clock		_
14	VCC1	Power supply = STB3.3V		+ -
15	NMI	(pull-up)		_
		(Interruption) Remote control signal input (in the panel unit)	<u>'</u> 	
16 17	REM_B KEY_B	(Interruption) Remote control signal input (in the panel unit) (Interruption) Key signal input (in the panel unit)	1 1	
	RST2		<u> </u>	+ ,
18		(Interruption) IC4 reset detection	<u> </u>	L
19	HD_IN_B	HD signal existence distinction		L
20	PD_MUTE	Mute the power down output to the POWER SUPPLY Unit	0	L L
21	PS_PD	PD signal in the POWER SUPPLY Unit	!	H
22	DCC_PD	PD signal of DC-DC converter	I	H
23	NC	NC pin		
24	NC	NC pin		
25	VD_IN	V. frequency count	ı	L
26	EEPRST	EEPROM power SW	0	Н
27	E_SCL	IIC clock output for EEPROM	0	
28	E_SDA	IIC data I/O for EEPROM	I/O	
29	TXD	Communication with flash ROM writer - data transmission	0	
30	RXD	Communication with flash ROM writer - data receive	I	
31	SCLK	Communication with flash ROM writer - clock input	I	
32	BUSY	Communication with flash ROM writer - busy output	0	
33	TXD0	UART communication with main UCOM (external PC) - data transmission	0	
34	RXD0	UART communication with main UCOM (external PC) - data receive	I	
35	NC	NC pin		
36	REQ_MD	Communication request to the main UCOM	0	Н
37	PSW_D	Mute of DC-DC converter	0	Н
38	WE_IC4	In IC4 (MANTA) rewriting, control for communication path switch	0	Н
39	EPM	Setting pin for flash rewriting mode (pull-down)	I	
40	IC4_RST	IC4 forced reset	0	L
41	IC4_CE	Enable for IC4 communication	0	L
42	IC4_BUSY	Busy input for IC4 communication	ı	Н
43	REQ_IC4	Communication request from the IC4	ı	Н
44	CE	Setting pin for flash rewriting mode (pull-up)	I	
45	PSIZE	Panel size distinction	- <u>-</u>	
46	B_SCL	IIC clock output for backup EEPROM	0	Н
47	B_SDA	IIC DATA I/O for backup EEPROM	I/O	Н Н
48	ADR_PD	PD signal of address junction	ı, O I	Н Н
49	LED_G	Green LED control	0	L
50	LED_G LED_R	Red LED control	0	L

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В

С

D

Ε

3 4

■ M30622FH8PGP (DIGITAL VIDEO ASSY : IC5201)

• PDP UCOM

• Pin Function (2/2)

No.	Pin Name	Function	1/0	ACTIVE
51	DRV_OFF	Driving OFF	0	Н
52	RELAY	Power ON control output	0	Н
53	POWER	Power ON control input	ı	Н
54	MR_ST_B	MDR connection detection	I	L
55	OP_DET	Rear case open detection	ı	
56	NC	NC NC pin		
57	PNL_MUTE	Panel mute	I	
58	DITHER	PC/VIDEO dither switch (panel module exclusive use)	I	
59	NC	NC pin		
60	VCC2	Power supply = STB 3.3V	_	_
61	PD_TRG	PD detection	I	L
62	VSS	GND	_	_
63	VH_PD	Vh power decrease PD	ı	Н
64	YDRV_PD	Y drive PD signal	ı	Н
65	YRES_PD	Y drive PD signal	l	Н
66	YDCDC_PD	PD signal of Y drive DC-DC converter	ı	Н
67	IC5V_PD	5V power decrease PD	<u> </u>	Н
68	XSUS_PD	X drive PD signal	1	Н
69	XDCDC_PD	PD signal of X drive DC-DC converter	i	Н
70	XDRV_PD	X drive PD signal	<u>:</u>	H
71	NC NC	NC pin	•	1
72	MR_AC	MR power monitor		Н
73	AC_DET	AC power monitor at panel side (same signal as CST1)	<u>-</u> -	L
74	DVI_MUTE	Mute of panel link output	0	H
75	A_MUTE	Audio mute	0	H
76	A_NG	Audio NG detection	I	L
77	A_SCL	IIC clock output for audio/others	0	L
78	A_SDA	IIC data I/O for audio/others	1/0	
79	TRUBASS	TRUBASS ON/OFF	0	H
80	STB_SW	Standby setting of audio amp.	0	- ··
81	FOCUS	FOCUS ON/OFF	0	H
82	SRS	SRS ON/OFF	0	H
83	DDC_WP	DDCROM write protection	0	H
84	DVI_DET	DVI cable disconnection detection		Н Н
85	RSTBTMDS	Reset detection of panel link receiver	! 	L
86	L_SYNC	DE omission detection of the panel link	<u>'</u>	L
87	NC	NC pin	'	
88	NC	NC pin		
89	MASK1	[A/D] Mask display setting	1	
90	MAX_PLS2	[A/D] Brightness setting for panel module	<u>'</u>	
91	MAX_PLS1	[A/D] Brightness setting for panel module	<u>'</u>	
92	TEMP	[A/D] AD input for temperature sensor	<u>'</u>	
93	MODE	[A/D] Operation mode setting	<u></u>	
93	AVSS	GND for A/D input	<u> </u>	
95	MODEL	[A/D] CMX/HD/TV/WX distinction		+ -
	VREF	Reference voltage for A/D input		
96				 -
97	AVCC	Power supply for A/D input = STB3.3V		_
98	NC	NC pin		
99	NC	NC pin		1
100	AMG_MD	Address emergency monitor	I	H

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● Pin Function (1/10)

5

Ball No.	No.	Pin Name	Function
A1	1	BAI_6	A phase signal input of B video (sixth bit)
B1	2	BAI_5	A phase signal input of B video (fifth bit)
C1	3	BAI_4	A phase signal input of B video (fourth bit)
D1	4	NC	NC pin
E1	5	NC	NC pin
F1	6	BAI_3	A phase signal input of B video (fifth bit)
G1	7	BAI_2	A phase signal input of B video (fourth bit)
H1	8	FIELD	FIELD signal input
J1	9	XSUSB_12	X-Drive control signal output
K1	10	XSUSB_10	X-Drive control signal output
L1	11	XSUSB_4	X-Drive control signal output
M1	12	XSUSB_0	X-Drive control signal output
N1	13	XSUSA_10	X-Drive control signal output
P1	14	XSUSA_4	X-Drive control signal output
R1	15	XSUSA_2	X-Drive control signal output
T1	16	ADRS_0	Address control signal output
U1	17	AD6TXOUT3M	Address LVDS signal output
V1	18	AD6TXCLKOUTM	Address LVDS signal output
W1	19	AD6TXOUT2M	Address LVDS signal output
Y1	20	AD6TXOUT1M	Address LVDS signal output
AA1	21	AD6TXOUT0M	Address LVDS signal output
AB1	22	AD7TXOUT3M	Address LVDS signal output
AC1	23	AD7TXCLKOUTM	Address LVDS signal output
AD1	24	AD7TXOUT2M	Address LVDS signal output
AE1	25	AD7TXOUT1M	Address LVDS signal output
AF1	26	AD7TXOUT0M	Address LVDS signal output
AF2	27	AD7TXOUT0P	Address LVDS signal output
AF3	28	VSSLA	GND
AF4	29	AD3TXOUT3M	Address LVDS signal output
AF5	30	AD3TXCLKOUTM	Address LVDS signal output
AF6	31	AD3TXOUT2M	Address LVDS signal output
AF7	32	AD3TXOUT1M	Address LVDS signal output
AF8	33	AD3TXOUT0M	Address LVDS signal output
AF9	34	AD2TXOUT3M	Address LVDS signal output
AF10	35	AD2TXCLKOUTM	Address LVDS signal output
AF11	36	AD2TXOUT2M	Address LVDS signal output
AF12	37	AD2TXOUT1M	Address LVDS signal output
AF13	38	AD2TXOUT0M	Address LVDS signal output
AF14	39	AD1TXOUT3M	Address LVDS signal output
AF15	40	AD1TXCLKOUTM	Address LVDS signal output
AF16	41	AD1TXOUT2M	Address LVDS signal output
AF17	42	AD1TXOUT1M	Address LVDS signal output
AF18	43	AD1TXOUT0M	Address LVDS signal output
AF19	44	AD0TXOUT3M	Address LVDS signal output
AF20	45	AD0TXCLKOUTM	Address LVDS signal output
AF21	46	ADOTXOUT2M	Address LVDS signal output Address LVDS signal output
AF22	47	AD0TXOUT1M	Address LVDS signal output Address LVDS signal output
AF23	48	ADOTXOUTOM	Address LVDS signal output Address LVDS signal output
AF23 AF24	49	VSSL15	GND
AF25	50	AD4TXOUT3P	Address LVDS signal output

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■ PDG054A (DIGITAL VIDEO ASSY : IC5401) • PDP ASIC IC4

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● Pin Function (2/10)

AD4TXOUT3M AD4TXCLKOUTM AD4TXOUT2M AD4TXOUT1M AD4TXOUT0M AD5TXOUT3M	Address LVDS signal output Address LVDS signal output Address LVDS signal output Address LVDS signal output
AD4TXOUT2M AD4TXOUT1M AD4TXOUT0M	Address LVDS signal output
AD4TXOUT1M AD4TXOUT0M	Address LVDS signal output
AD4TXOUT0M	·
AD4TXOUT0M	
ADSTVOLITAM	Address LVDS signal output
ADSTAUUTSIVI	Address LVDS signal output
AD5TXCLKOUTM	Address LVDS signal output
AD5TXOUT2M	Address LVDS signal output
AD5TXOUT1M	Address LVDS signal output
AD5TXOUT0M	Address LVDS signal output
SDIDBI_N	JTAG signal
	JTAG signal
	Microcomputer macro general-purpose port
	Microcomputer macro general-purpose port
	Y-Drive control signal output
	NC pin
	NC pin
	Scan control signal output
	Communication with microcomputer
	Communication with microcomputer
	Communication with microcomputer
	Flash memory address bus
	Flash memory data bus
	Flash memory data bus
	Flash memory data bus
	NC pin
	B phase signal input of R video (fifth bit)
	B phase signal input of R video (0 bit)
	B phase signal input of G video (eighth bit)
	B phase signal input of G video (second bit)
	B phase signal input of B video (sixth bit)
	B phase signal input of B video (0 bit)
	VD signal input
RAI_5	A phase signal input of R video (fifth bit)
	CLK input
DCLKI	VER 111001
DCLKI GAI_4	A phase signal input of G video (fourth bit)
	SDIJTAG GPIO0_3 GPIO0_1 YSUSA_4 YSUSA_10 YSUSA_14 YSUSB_6 YSUSB_10 YSUSB_14 NC NC SCAN_10 CSIOTXD CSRD_N CSCS_NO EXA16 EXA15 EXA14 EXA13 EXA12 EXA10 EXA7 EXA1 EXDIO_3 EXDIO_5 EXDIO_11 TRNSEND_O RBI_5 RBI_0 GBI_8 GBI_2 BBI_6 BBI_0 VDI

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● Pin Function (3/10)

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Ball No.	No.	Pin Name	Function
B2	101	BAI_8	A phase signal input of B video (eighth bit)
C2	102	BAI_7	A phase signal input of B video (seventh bit)
D2	103	GND	GND
E2	104	NC	NC
F2	105	NC	NC
G2	106	BAI_1	A phase signal input of B video (first bit)
H2	107	XSUSB_15	X-Drive control signal output
J2	108	GND	GND
K2	109	XSUSB_9	X-Drive control signal output
L2	110	XSUSB_3	X-Drive control signal output
M2	111	XSUSA_15	X-Drive control signal output
N2	112	XSUSA_9	X-Drive control signal output
P2	113	GND	GND
R2	114	XSUSA_1	X-Drive control signal output
T2	115	TEST2	Test signal input (Not used)
U2	116	AD6TXOUT3P	Address LVDS signal output
V2	117	AD6TXCLKOUTP	Address LVDS signal output
W2	118	AD6TXOUT2P	Address LVDS signal output
Y2	119	AD6TXOUT1P	Address LVDS signal output
AA2	120	AD6TXOUT0P	Address LVDS signal output
AB2	121	AD7TXOUT3P	Address LVDS signal output
AC2	122	AD7TXCLKOUTP	Address LVDS signal output
AD2	123	AD7TXOUT2P	Address LVDS signal output
AE2	124	AD7TXOUT1P	Address LVDS signal output
AE3	125	VSSLA	GND
AE4	126	AD3TXOUT3P	Address LVDS signal output
AE5	127	AD3TXCLKOUTP	Address LVDS signal output
AE6	128	AD3TXOUT2P	Address LVDS signal output
AE7	129	AD3TXOUT1P	Address LVDS signal output
AE8	130	AD3TXOUT0P	Address LVDS signal output
AE9	131	AD2TXOUT3P	Address LVDS signal output
AE10	132	AD2TXCLKOUTP	Address LVDS signal output
AE11	133	AD2TXOUT2P	Address LVDS signal output
AE12	134	AD2TXOUT1P	Address LVDS signal output
AE13	135	AD2TXOUT0P	Address LVDS signal output
AE14	136	AD1TXOUT3P	Address LVDS signal output
AE15	137	AD1TXCLKOUTP	Address LVDS signal output
AE16	138	AD1TXOUT2P	Address LVDS signal output
AE17	139	AD1TXOUT1P	Address LVDS signal output
AE18	140	AD1TXOUT0P	Address LVDS signal output
AE19	141	AD0TXOUT3P	Address LVDS signal output
AE20	142	AD0TXCLKOUTP	Address LVDS signal output
AE21	143	AD0TXOUT2P	Address LVDS signal output
AE22	144	AD0TXOUT1P	Address LVDS signal output
AE23	145	AD0TXOUT0P	Address LVDS signal output
AE24	146	VSSL15	GND
AE25	147	AD4TXCLKOUTP	Address LVDS signal output
AD25	148	AD4TXOUT2P	Address LVDS signal output
AC25	149	AD4TXOUT1P	Address LVDS signal output
AB25	150	AD4TXOUT0P	Address LVDS signal output

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● Pin Function (4/10)

Ball No.	No.	Pin Name	Function
AA25	151	AD5TXOUT3P	Address LVDS signal output
Y25	152	AD5TXCLKOUTP	Address LVDS signal output
W25	153	AD5TXOUT2P	Address LVDS signal output
V25	154	AD5TXOUT1P	Address LVDS signal output
U25	155	AD5TXOUT0P	Address LVDS signal output
T25	156	SDITRST_N	JTAG signal
R25	157	RESETX	Reset input
P25	158	GND	GND
N25	159	GPIO0_0	Microcomputer macro general-purpose port
M25	160	YSUSA_5	Y-Drive control signal output
L25	161	YSUSA_11	Y-Drive control signal output
K25	162	YSUSA_15	Y-Drive control signal output
J25	163	GND	GND
H25	164	YSUSB_7	Y-Drive control signal output
G25	165	YSUSB_11	Y-Drive control signal output
F25	166	NC	NC pin
E25	167	NC	NC pin
D25	168	GND	GND
C25	169	SCAN_11	Scan control signal output
B25	170	CSIORXD	Communication with UCOM
B24	171	CSIOSCKI	Communication with UCOM
B23	172	UARTTXD	Communication with UCOM
B22	173	UARTRXD	Communication with UCOM
B21	174	CSWR_N0	Communication with UCOM
B20	175	GND	GND
B19	176	EXA9	Flash memory address bus
B18	177	EXA6	Flash memory address bus
B17	178	EXA0	Flash memory address bus
B16	179	GND	GND
B15	180	EXDIO_6	Flash memory data bus
B14	181	EXDIO_12	Flash memory data bus
B13	182	RBI_9	B phase signal input of R video (ninth bit)
B12	183	 RBI_4	B phase signal input of R video (fourth bit)
B11	184	GND	GND
B10	185	GBI_7	B phase signal input of G video (seventh bit)
B9	186	GBI_1	B phase signal input of G video (first bit)
B8	187	BBI_5	B phase signal input of B video (fifth bit)
В7	188	GND	GND
B6	189	HDI	HD signal input
B5	190	RAI_4	A phase signal input of R video (fourth bit)
B4	191	GAI_9	A phase signal input of G video (ninth bit)
В3	192	GAI_3	A phase signal input of G video (third bit)
C3	193	GAI_2	A phase signal input of G video (second bit)
D3	194	VDDD33	3.3V power supply
E3	195	GAI_1	A phase signal input of G video (first bit)
F3	196	GAI_0	A phase signal input of G video (0 bit)
G3	197	NC	NC pin
H3	198	XSUSB_14	X-Drive control signal output
J3	199	VDDIO	3.3V power supply
K3	200	XSUSB_8	X-Drive control signal output

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● Pin Function (4/10)

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AD5TXOUT3P	Address LVDS signal output
AD5TXCLKOUTP	Address LVDS signal output
AD5TXOUT2P	Address LVDS signal output
AD5TXOUT1P	Address LVDS signal output
AD5TXOUT0P	Address LVDS signal output
SDITRST_N	JTAG signal
RESETX	Reset input
GND	GND
GPIO0_0	Microcomputer macro general-purpose port
YSUSA_5	Y-Drive control signal output
YSUSA_11	Y-Drive control signal output
YSUSA_15	Y-Drive control signal output
GND	GND
YSUSB_7	Y-Drive control signal output
YSUSB_11	Y-Drive control signal output
NC	NC pin
NC	NC pin
GND	GND
SCAN 11	Scan control signal output
CSIORXD	Communication with UCOM
CSIOSCKI	Communication with UCOM
UARTTXD	Communication with UCOM
	Communication with UCOM
	Communication with UCOM
GND	GND
EXA9	Flash memory address bus
EXA6	Flash memory address bus
	Flash memory address bus
	GND
	Flash memory data bus
	Flash memory data bus
	B phase signal input of R video (ninth bit)
	B phase signal input of R video (fourth bit)
	GND
	B phase signal input of G video (seventh bit)
	B phase signal input of G video (first bit)
	B phase signal input of B video (fifth bit)
	GND
	HD signal input
	A phase signal input of R video (fourth bit)
	A phase signal input of G video (ninth bit)
	A phase signal input of G video (third bit)
	A phase signal input of G video (second bit)
	3.3V power supply
	A phase signal input of G video (first bit)
	A phase signal input of G video (0 bit)
NC	NC pin
	- r
	X-Drive control signal output
XSUSB_14 VDDIO	X-Drive control signal output 3.3V power supply
	AD5TXOUT1P AD5TXOUT0P SDITRST_N RESETX GND GPIO0_0 YSUSA_5 YSUSA_11 YSUSA_15 GND YSUSB_7 YSUSB_11 NC NC GND SCAN_11 CSIORXD CSIOSCKI UARTTXD UARTRXD CSWR_N0 GND EXA9 EXA6 EXA0 GND EXA9 EXA6 EXA0 GND EXDIO_6 EXDIO_12 RBI_9 RBI_4 GND GBI_7 GBI_1 BBI_5 GND HDI RAI_4 GAI_9 GAI_3 GAI_2 VDDD33 GAI_1 GAI_0

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■ PDG054A (DIGITAL VIDEO ASSY : IC5401) • PDP ASIC IC4

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● Pin Function (5/10)

Ball No.	No.	Pin Name	Function
L3	201	XSUSB_2	X-Drive control signal output
МЗ	202	XSUSA_14	X-Drive control signal output
N3	203	XSUSA_8	X-Drive control signal output
P3	204	VDDIO	3.3V power supply
R3	205	XSUSA_0	X-Drive control signal output
Т3	206	TEST1	Test signal input (Not used)
U3	207	VSSLA	GND
V3	208	VSSLA	GND
W3	209	VSSLA	GND
Y3	210	VSSLA	GND
AA3	211	VSSLA	GND
AB3	212	VSSLA	GND
AC3	213	VSSLA	GND
AD3	214	VSSLA	GND
AD4	215	VSSLA	GND
AD5	216	VSSLA	GND
AD6	217	VSSLA	GND
AD7	218	VSSLA	GND
AD8	219	VSSLA	GND
AD9	220	VSSLA	GND
AD10	221	VSSLA	GND
AD11	222	VSSLA	GND
AD12	223	VSSLA	GND
AD13	224	VSSLA	GND
AD14	225	VSSLA	GND
AD15	226	VSSLA	GND
AD16	227	VSSLA	GND
AD17	228	VSSLA	GND
AD18	229	VSSLA	GND
AD19	230	VSSLA	GND
AD20	231	VSSLA	GND
AD21	232	VSSLA	GND
AD22	233	VSSLA	GND
AD23	234	VSSLA	GND
AD24	235	VSSLA	GND
AC24	236	VSSLA	GND
AB24	237	VSSLA	GND
AA24	238	VSSLA	GND
Y24	239	VSSLA	GND
W24	240	VSSLA	GND
V24	241	VSSLA	GND
U24	242	VSSLA	GND
T24	243	SDITDO	JTAG signal
R24	244	GPIO0_7	Microcomputer macro general-purpose port
P24	245	VDDIO	3.3V power supply
N24	246	YSUSA_0	Y-Drive control signal output
M24	247	YSUSA_6	Y-Drive control signal output
L24	248	YSUSA_12	Y-Drive control signal output
K24	249	YSUSB_0	Y-Drive control signal output
J24	250	VDDD33	3.3V power supply

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● Pin Function (6/10)

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Ball No.	No.	Pin Name	Function
H24	251	YSUSB_8	Y-Drive control signal output
G24	252	NC	NC pin
F24	253	YSUSB_15	Y-Drive control signal output
E24	254	SCAN_3	Scan control signal output
D24	255	VDDD33	3.3V power supply
C24	256	SCAN_12	Scan control signal output
C23	257	SCAN_13	Scan control signal output
C22	258	SCAN_14	Scan control signal output
C21	259	SCAN_15	Scan control signal output
C20	260	VDDIO	3.3V power supply
C19	261	EXA8	Flash memory address bus
C18	262	EXA5	Flash memory address bus
C17	263	CLKD	CLK input (60MHz)
C16	264	VDDIO	3.3V power supply
C15	265	EXDIO_7	Flash memory data bus
C14	266	EXDIO_13	Flash memory data bus
C13	267	RBI_8	B phase signal input of R video (eighth bit)
C12	268	RBI_3	B phase signal input of R video (third bit)
C11	269	VDDIO	3.3V power supply
C10	270	GBI_6	B phase signal input of G video (sixth bit)
C9	271	GBI_0	B phase signal input of G video (sixti bit) B phase signal input of G video (0 bit)
C8	272	BBI_4	B phase signal input of B video (fourth bit)
C7	273	VDDIO	3.3V power supply
C6	274	RAI_9	A phase signal input of R video (ninth bit)
C5	275	RAI 3	A phase signal input of R video (third bit) A phase signal input of R video (third bit)
C4	276	GAI_8	A phase signal input of A video (tillid bit) A phase signal input of G video (eighth bit)
D4	277	GAI_8	A phase signal input of G video (eighth bit) A phase signal input of G video (seventh bit)
E4	278	GAI_6	A phase signal input of G video (several bit) A phase signal input of G video (sixth bit)
F4	279	GAI_5	A phase signal input of G video (sixtif bit) A phase signal input of G video (fifth bit)
G4	280	VCMP	GND
H4	281		X-Drive control signal output
П 4 Ј4		XSUSB_13	·
	282	XSUSB_11	X-Drive control signal output
K4	283	XSUSB_7	X-Drive control signal output
L4	284	XSUSB_1	X-Drive control signal output
M4	285	XSUSA_13	X-Drive control signal output
N4	286	XSUSA_7	X-Drive control signal output
P4	287	XSUSA_3	X-Drive control signal output
R4	288	ADRS_3	Address control signal output
T4	289	TESTAN	Test signal input (Not used)
U4	290	VDDLA	3.3V power supply
V4	291	VDDLA	3.3V power supply
W4	292	VDDLA	3.3V power supply
Y4	293	VDDLA	3.3V power supply
AA4	294	VDDLA	3.3V power supply
AB4	295	VDDLA	3.3V power supply
AC4	296	VDDLA	3.3V power supply
AC5	297	VDDLA	3.3V power supply
AC6	298	VDDLA	3.3V power supply
AC7	299	VDDLA	3.3V power supply
AC8	300	VDDLA	3.3V power supply

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● Pin Function (7/10)

Ball No.	No.	Pin Name	Function
AC8	300	VDDLA	3.3V power supply
AC9	301	VDDLA	3.3V power supply
AC10	302	VDDLA	3.3V power supply
AC11	303	VDDLA	3.3V power supply
AC12	304	VDDLA	3.3V power supply
AC13	305	VDDLA	3.3V power supply
AC14	306	VDDBG	3.3V power supply
AC15	307	VDDLA	3.3V power supply
AC16	308	VDDLA	3.3V power supply
AC17	309	VDDLA	3.3V power supply
AC18	310	VDDLA	3.3V power supply
AC19	311	VDDLA	3.3V power supply
AC20	312	VDDLA	3.3V power supply
AC21	313	VDDLA	3.3V power supply
AC22	314	VDDLA	3.3V power supply
AC23	315	VDDLA	3.3V power supply
AB23	316	VDDLA	3.3V power supplyv
AA23	317	VDDLA	3.3V power supply
Y23	318	VDDLA	3.3V power supply
W23	319	VDDLA	3.3V power supply
V23	320	VDDLA	3.3V power supply
U23	321	VDDLA	3.3V power supply
T23	322	SDITDI	JTAG signal
R23	323	GPIO0_6	Microcomputer macro general-purpose port
P23	324	GPIO0_2	Microcomputer macro general-purpose port
N23	325	YSUSA_1	Y-Drive control signal output
M23	326	YSUSA_7	Y-Drive control signal output
L23	327	YSUSA_13	Y-Drive control signal output
K23	328	YSUSB_1	Y-Drive control signal output
J23	329	YSUSB_5	Y-Drive control signal output
H23	330	YSUSB_9	Y-Drive control signal output
G23	331	VCMP	GND
F23	332	SCAN_0	Scan control signal output
E23	333	SCAN_4	Scan control signal output
D23	334	SCAN_7	Scan control signal output
D22	335	SCAN_8	Scan control signal output
D21	336	SCAN_9	Scan control signal output
D20	337	EXA11	Flash memory address bus
D19	338	EXA19	Flash memory address bus
D18	339	EXA4	Flash memory address bus
D17	340	EXDIO_0	Flash memory data bus
D16	341	EXDIO_4	Flash memory data bus
D15	342	EXDIO_4 EXDIO_8	Flash memory data bus
D13	343	EXDIO_14	Flash memory data bus
D14	344	RBI_7	B phase signal input of R video (seventh bit)
D13	345	RBI_2	B phase signal input of R video (seventh bit) B phase signal input of R video (second bit)
D12	346	GBI_9	B phase signal input of A video (second bit) B phase signal input of G video (ninth bit)
D11	346	GBI_5	B phase signal input of G video (fifth bit) B phase signal input of G video (fifth bit)
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D9	348	BBI_9	B phase signal input of B video (ninth bit)
D8	349	BBI_3	B phase signal input of B video (tenth bit)

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● Pin Function (8/10)

Ball No.	No.	Pin Name	Function
D7	350	DEI	DE signal input
D6	351	RAI_8	A phase signal input of R video (eighth bit)
D5	352	RAI_2	A phase signal input of R video (second bit)
E5	353	RAI_1	A phase signal input of R video (first bit)
F5	354	RAI_0	A phase signal input of R video (0 bit)
G5	355	BAI_0	A phase signal input of B video (0 bit)
H5	356	VSS15	GND
J5	357	VDDHR	3.3V power supply
K5	358	XSUSB 6	X-Drive control signal output
L5	359	VSSD15	GND
M5	360	XSUSA_12	X-Drive control signal output
N5	361	XSUSA_6	X-Drive control signal output
P5	362	VSS15	GND
R5	363	ADRS_2	Address control signal output
T5	364	TESTBN	Test signal input (Not used)
U5	365	VSSL15	GND
V5	366	VSSLA	GND
W5	367	VSSLA	GND
Y5	368	VSSL15	GND
AA5	369	VDDLP	3.3V power supply
AB5	370	VSSL15	GND
AB6	371	VSSLA	GND
AB7	371	VSSLA	GND
AB8	372	VSSLA VSSL15	GND
AB9	373	VSSLIS	GND
AB10	374	VSSLA	GND
AB10 AB11	375	VSSLA VSSL15	GND
AB11	376	VSSLIS	GND
			GND
AB13	378	VSSLA REFRIN	
AB14 AB15	379	VSSBG	Reference current generation GND
	380		
AB16	381	VSSL15	GND GND
AB17	382	VSSLA	
AB18	383	VSSLA	GND
AB19	384	VSSL15	GND
AB20	385	VSSLA	GND
AB21	386	VSSLA	GND
AB22	387	VSSLA	GND
AA22	388	VDDLA	3.3V power supply
Y22	389	VSSL15	GND
W22	390	VSSLA	GND
V22	391	VSSLA	GND
U22	392	VSSL15	GND
T22	393	SDITMS	JTAG signal
R22	394	GPIO0_5	Microcomputer macro general-purpose port
P22	395	VSS15	GND
N22	396	YSUSA_2	Y-Drive control signal output
M22	397	YSUSA_8	Y-Drive control signal output
L22	398	VSSD15	GND
K22	399	YSUSB_2	Y-Drive control signal output

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● Pin Function (9/10)

Ball No.	No.	Pin Name	Function
J22	400	VDDHL	3.3V power supply
H22	401	VSSD15	GND
G22	402	YSUSB_12	Y-Drive control signal output
F22	403	SCAN_1	Scan control signal output
E22	404	SCAN_5	Scan control signal output
E21	405	SCAN_6	Scan control signal output
E20	406	VSS15	GND
E19	407	EXA18	Flash memory address bus
E18	408	EXA3	Flash memory address bus
E17	409	EXDIO_1	Flash memory data bus
E16	410	VSS15	GND
E15	411	EXDIO_9	Flash memory data bus
E14	412	EXDIO_3 EXDIO_15	Flash memory data bus
E13	413	RBI_6	B phase signal input of R video (sixth bit)
E12	414	CLKS	CLK input (85MHz)
E11	415	VSS15	GND
E10	416	GBI_4	B phase signal input of G video (fourth bit)
E8	418	BBI_2	B phase signal input of B video (second bit)
E9	417	BBI_8	B phase signal input of B video (second bit) B phase signal input of B video (eighth bit)
E7	419	VSS15	GND
E6	420	RAI_7	A phase signal input of R video (seventh bit)
F6	421	RAI_6	A phase signal input of R video (sixth bit)
G6	422	APL_DT	APL value trigger input
H6	423	VDD15	1.5V power supply
J6	424	VBB	VBB power monitor in the DRAM
K6	425	XSUSB_5	X-Drive control signal output
L6	426	VDDD15	1.5V power supply
M6	427	XSUSA_11	X-Drive control signal output
N6	428	XSUSA_5	X-Drive control signal output
P6	429	VDD15	1.5V power supply
R6	430	ADRS_1	Address control signal output
T6	431	TESTCN	Test signal input (Not used)
U6	432	VDDL15	1.5V power supply
V6	433	VDDLA	3.3V power supply
W6	434	VDDLA	3.3V power supply
Y6	435	VDDL15	1.5V power supply
AA6	436	VDDLA	3.3V power supply
AA7	437	VDDLA	3.3V power supply
AA8	438	VDDL15	1.5V power supply
AA9	439	VDDLA	3.3V power supply
AA10	440	VDDLA	3.3V power supply
AA11	441	VDDL15	1.5V power supply
AA12	442	VDDLA	3.3V power supply
AA13	443	VDDLA	3.3V power supply
AA14	444	VDDLA	3.3V power supply
AA15	445	VDDLA	3.3V power supply
AA16	446	VDDL15	1.5V power supply
AA17	447	VDDLA	3.3V power supply
AA18	448	VDDLA	3.3V power supply
AA19	449	VDDL15	1.5V power supply

● Pin Function (10/10)

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Ball No.	No.	Pin Name	Function
AA20	450	VDDLA	3.3V power supply
AA21	451	VDDLA	3.3V power supply
Y21	452	VDDL15	1.5V power supply
W21	453	VDDLA	3.3V power supply
V21	454	VDDLA	3.3V power supply
U21	455	VDDL15	1.5V power supply
T21	456	SDITCK	JTAG signal
R21	457	GPIO0_4	Microcomputer macro general-purpose port
P21	458	VDD15	1.5V power supply
N21	459	YSUSA_3	Y-Drive control signal output
M21	460	YSUSA_9	Y-Drive control signal output
L21	461	VDDD15	1.5V power supply
K21	462	YSUSB_3	Y-Drive control signal output
J21	463	VBB	VBB power monitor in the DRAM
H21	464	VDDD15	1.5V power supply
G21	465	YSUSB_13	Y-Drive control signal output
F21	466	SCAN_2	Scan control signal output
F20	467	VDD15	1.5V power supply
F19	468	EXA17	Flash memory address bus
F18	469	EXA2	Flash memory address bus
F17	470	EXDIO_2	Flash memory data bus
F16	471	VDD15	1.5V power supply
F15	472	EXDIO_10	Flash memory data bus
F14	473	TRNSEND_I	NC pin
F13	474	VDD15	1.5V power supply
F12	475	RBI_1	B phase signal input of R video (first bit)
F11	476	VDD15	1.5V power supply
F10	477	GBI_3	B phase signal input of G video (third bit)
F9	478	BBI_7	B phase signal input of B video (seventh bit)
F8	479	BBI_1	B phase signal input of B video (first bit)
F7	480	VDD15	1.5V power supply

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В

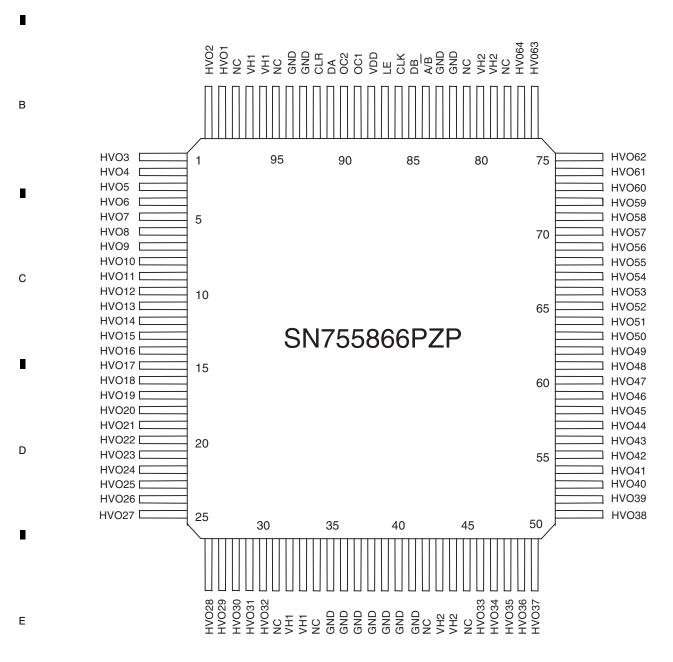
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■ SN755866PZP (43 SCAN A ASSY : IC3001 - IC3006) (43 SCAN B ASSY : IC3201 - IC3206)

- Mod Ucom
- Pin Arrangement (Top view)

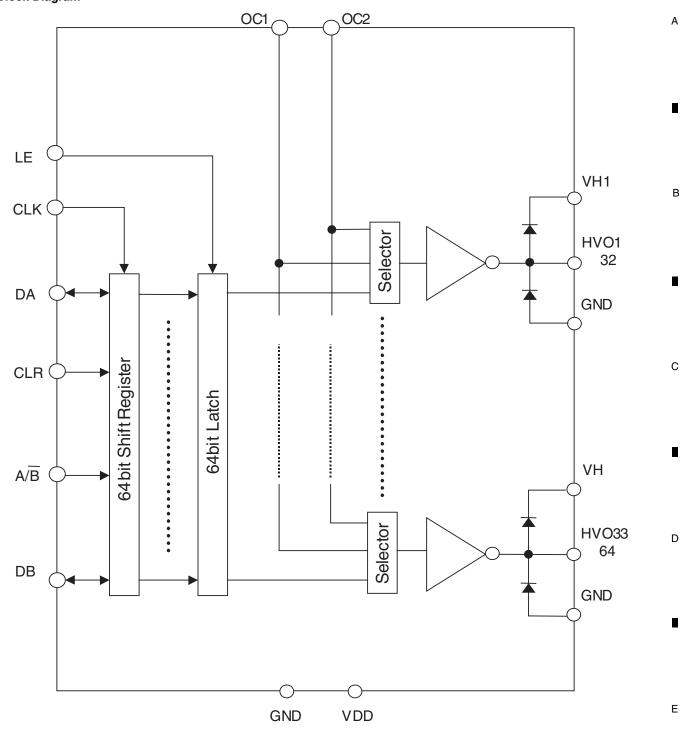


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PDP-435PE

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PDP-435PE

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Pin Function

Pin Name No. I/O **Function** CLK 86 Shift clock. 1/0 DA 91 Serial data input/output of Sift register pin. DB 85 1/0 Serial data input/output of Sift register pin. CLR 92 "H" level: sift register contents of "L" level. LE 87 Ī "L" level: Slew, "H" level: Larch A/B 84 Setup pin of sift register sift direction. OC1 89 HVO Output control pin. OC2 90 ī HVO Output control pin. 0 High-voltage drive output. (HVO1 - HVO64) HVO 99,100,1-30 46-77 VDD 88 Logic power supply. **GND** 35-41,82-83 Reference potential 0V (HVO diode anode) 93-94 HVO1 - 32 High voltage circuit power supply (HVO diode cathode). VH1 32,33,96,97 VH2 HVO33 - 64 High voltage circuit power supply (HVO diode cathode). 43,44,79,80 NC 31,34,41,45 NC pin 78,81,95,98

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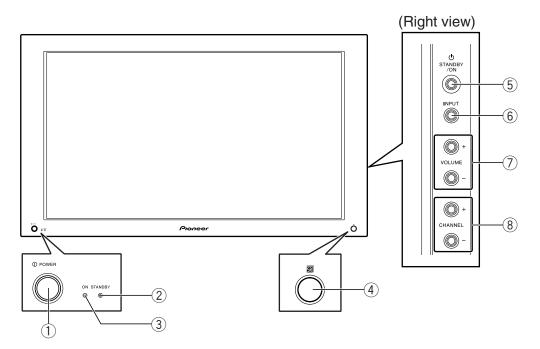
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8. PANEL FACILITIES AND SPECIFICATIONS

■ PLASMA DISPLAY

Front view



- 1 POWER button
- 2 STANDBY indicator
- ③ POWER ON indicator
- 4 Remote control sensor

- **5** STANDBY/ON button
- 6 INPUT button
- 7 VOLUME +/- buttons
- 8 CHANNEL +/- buttons

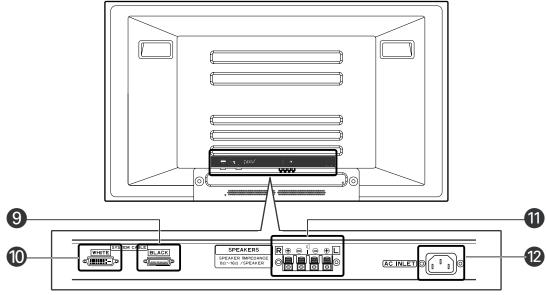
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• Rear view

В



The terminals are facing down.

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- 9 SYSTEM CABLE terminal (BLACK)
- SYSTEM CABLE terminal (WHITE)
- SPEAKER (right/left) terminals
- AC INLET terminal

102

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PDP-435PE

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